



2017 Annual Report

2017 ANNUAL GROUNDWATER MONITORING AND CORRECTIVE ACTION REPORT

GEORGIA POWER COMPANY – PLANT SCHERER
ASH POND (AP-1)

Prepared for: Georgia Power Company

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Georgia Power Company
Plant Scherer

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Table of Contents

CERTIFICATION STATEMENT

1.0	INTRODUCTION.....	1
1.1	Site Description and Background.....	1
1.2	Regional Geology and Hydrogeologic Setting	1
1.3	Groundwater Monitoring Well Network	2
2.0	GROUNDWATER MONITORING ACTIVITIES	2
2.1	Monitoring Well Installation and Maintenance	2
2.2	Detection Monitoring	3
2.2.1	Background Monitoring	3
2.2.2	Initial Detection Monitoring.....	3
3.0	SAMPLE METHODOLOGY & ANALYSIS	3
3.1	Groundwater Elevation Measurement	3
3.2	Groundwater Gradient and Flow Velocity	3
3.3	Groundwater Sampling	4
3.4	Laboratory Analyses	5
3.5	Quality Assurance and Quality Control	5
4.0	STATISTICAL ANALYSES	5
4.1	Statistical Method.....	5
4.2	Statistical Analysis Results	7
4.3	Appendix IV Background Data	7
5.0	MONITORING PROGRAM STATUS.....	8
6.0	CONCLUSIONS AND FUTURE ACTIONS	8
7.0	REFERENCES.....	9

List of Tables

Table 1	Monitoring Well Network Summary
Table 2	Groundwater Sampling Event Summary
Table 3	Summary of Groundwater Elevations
Table 4	Groundwater Flow Velocity Calculations – October 2017



Table of Contents (continued)

List of Figures

Figure 1	Site Location Map
Figure 2	Site Plan and Monitoring Well Location Map
Figure 3	Ash Pond Potentiometric Surface Elevation Contour Map – October 2017

List of Appendices

Appendix A	Tables A-1 through A-25 – Analytical Data Summary Analytical Results & Field Data Forms
Appendix B	Statistical Analyses



CERTIFICATION STATEMENT

This 2017 Annual Groundwater Monitoring & Corrective Action Report, Georgia Power Company Plant Scherer-Ash Pond (AP-1) has been prepared to comply with the United States Environmental Protection Agency (USEPA) coal combustion residual (CCR) rule (40 Code of Federal Regulations [CFR] 257 Subpart D; published in 80 FR 21302-21501, April 17, 2015) under the direction of a licensed professional engineer as well as a licensed professional geologist with Golder Associates Inc.

GOLDER ASSOCIATES INC.

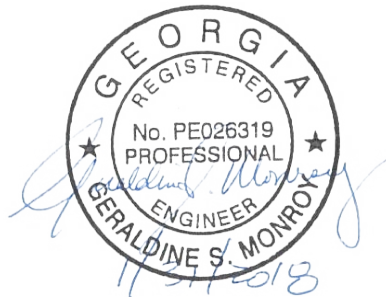
1/31/2018

Dawn L. Prell
Senior Hydrogeologist

Date

I hereby certify that this 2017 Annual Groundwater Monitoring & Corrective Action Report, Georgia Power Company Plant Scherer-Ash Pond (AP-1) located at 10986 Georgia 87, Juliette, Georgia 31046, has been prepared to meet the requirements of 40 CFR §257.90(e).

GOLDER ASSOCIATES INC.



1/31/2018

Geraldine S. Monroy, P.E.
Licensed State of GA, PE No. 26319

Date



1/31/2018

Rachel P. Kirkman, PG
Georgia Registered Professional Geologist No. 1756

Date





1.0 INTRODUCTION

In accordance with the United States Environmental Protection Agency (USEPA) coal combustion residual (CCR) rule (40 Code of Federal Regulations [CFR] 257 Subpart D; published in 80 FR 21302-21501, April 17, 2015), this *2017 Annual Groundwater Monitoring and Corrective Action Report* has been prepared to document groundwater monitoring activities conducted at Georgia Power Company's (GPC's) Plant Scherer Ash Pond (AP-1) and satisfies the requirements of §257.90(e). Groundwater monitoring and reporting for Plant Scherer is performed in accordance with the requirements of §257.90 through §257.98. This report documents the activities completed to establish the groundwater monitoring program and actions through the 2017 calendar year.

1.1 Site Description and Background

Plant Scherer is located in northeast Monroe County, GA, and is operated by the Georgia Power Company (GPC). The Plant is situated approximately 5 miles south of Juliette, GA and is surrounded primarily by agricultural and residential land use. The property occupies approximately 12,000 acres and is bounded on the south by Lake Juliette. Figure 1, Site Location Map, depicts the location of Plant Scherer relative to the surrounding area.

Plant Scherer is a four-unit, coal-fired power generation facility. Coal combustion residuals (CCRs) are sluiced to a 550-acre ash pond (AP-1) located onsite, northwest of the main plant. The Ash Pond has been in operation since the plant became commercially operational in 1982. Figure 2, Site Plan and Groundwater Monitoring Well Location Map, depicts the general configuration of AP-1 and site monitoring wells.

The site is located within the Piedmont Physiographic Province of central Georgia, which is characterized by gently rolling hills and narrow valleys, with locally pronounced linear ridges. Overall, the property slopes gently south toward Lake Juliette and east toward the Ocmulgee River (Figure 1). The ash pond is located on a topographically high area, with several relatively small, intermittent and perennial creeks and streams surrounding the pond, creating radial surface water drainage downslope of the pond. Some of these creeks and streams join Berry Creek north and east of the ash pond. The Berry Creek ultimately discharges into the Ocmulgee River. Other creeks and streams generally flow south and west. Several isolated hilltops occur west of the pond and represent topographic high points on the site. Topographic relief across the site is greater than 200 feet, with a natural topographic high of over 570 feet above mean sea level (ft msl) occurring along the ridge west of the ash pond, and a topographic low of less than 380 ft msl in the eastern portion of the site near Berry Creek.

1.2 Regional Geology and Hydrogeologic Setting

The following section and subsections include a general description of regional geologic and hydrogeologic characteristics of formations that occur beneath the site. Information presented in this section is based on published literature, discussion with local geologic experts, and experience working in this geologic terrain.

The site is located within the Piedmont Physiographic Province of central Georgia, which is characterized by gently rolling hills and narrow valleys, with locally pronounced linear ridges. Overall, the property slopes gently south toward Lake Juliette and east toward the Ocmulgee River (Figure 1). The metamorphic and igneous rocks that underlie the area have been subjected to physical and chemical weathering which has created a landscape dissected by creeks and streams forming a dendritic drainage pattern. These rocks are deeply weathered due to the humid climate and bedrock is typically overlain by a variably thick blanket of residual soils and saprolite. The overall depth of weathering in the Piedmont region is generally about 20 to 60 feet; however, the depth of weathering along discontinuities and/or very feldspathic rock units may



extend to depths greater than 100 feet. Because of such variations in rock types and structure, the depth of weathering can vary significantly over short horizontal distances.

The near surface conditions were determined based upon available boring and monitoring well installation logs. Based on our review of this information, residual soils, consisting of primarily sandy silt, silty sand, sandy clay and silty clay, occur as a variably-thick blanket overlying bedrock across most of the site. The thickness of the residual soil encountered in the borings is variable, ranging from approximately 17 feet to as much as 168 feet, with an average residual soil thickness of about 57 feet. Saprolitic soils and/or saprolitic rock vary in thickness across the site, but are generally encountered at or near ground surface. Saprolitic rock is also considered to be partially weathered rock (PWR). Material overlying the top of rock surface, including residual soils, saprolite, and transitionally weathered rock, is collectively referred to as overburden or regolith.

1.3 Groundwater Monitoring Well Network

Pursuant to §257.91, GPC installed a groundwater monitoring system within the uppermost aquifer at AP-1. The monitoring system is installed to monitor groundwater passing the waste boundary of AP-1 within the uppermost aquifer. Wells were located to serve as upgradient and downgradient wells based on groundwater flow direction as determined by the potentiometric surface elevation contour maps.

A network of 25 monitoring wells was installed in 2015 to 2016 for groundwater monitoring near AP-1. Table 1, Monitoring Well Network Summary includes the pertinent construction details for the AP-1 monitoring well network at Plant Scherer. The detection monitoring well network has been certified by a Professional Engineer in Georgia, with notice of that certification in the Operating Record pursuant to §257.90(f)(6).

2.0 GROUNDWATER MONITORING ACTIVITIES

As required by §257.90(e), the following section describes monitoring-related activities performed during the preceding year. Since this is the first *2017 Annual Groundwater Monitoring and Corrective Action Report*, it also describes activities performed prior to 2017 to establish the groundwater monitoring program. Groundwater sampling was performed in accordance with §257.93. Samples were collected from each well in the certified monitoring system for the CCR unit. The location of each of these monitoring wells is shown on Figure 2.

Pursuant to §257.90(e)(3), Table 2, Groundwater Sampling Event Summary, presents a summary of groundwater sampling events completed for AP-1.

2.1 Monitoring Well Installation and Maintenance

In accordance with §257.91, a groundwater monitoring system was installed that (1) consists of a sufficient number of wells, (2) installed at appropriate locations and depths to yield groundwater samples from the uppermost aquifer, and (3) meets the performance standards of §257.91(a). In summary, monitoring well-related activities included the following:

- Installation of a groundwater monitoring system for the AP-1 CCR unit. The monitoring well network and pertinent construction details is presented on Table 1.
- Installation of dedicated sampling equipment in each of the AP-1 monitoring wells.
- Visual inspection of well conditions prior to sampling, recording the site conditions, and performing exterior maintenance to perform sampling under safe and clean conditions.



- Well redevelopment when well yield is reduced or turbid.

2.2 Detection Monitoring

Pursuant to §257.91, GPC installed a certified detection monitoring well network for monitoring groundwater within the uppermost aquifer at AP-1.

2.2.1 Background Monitoring

In accordance with §257.94(b), a minimum of eight (8) independent samples were collected from the certified well network for AP-1 and analyzed for the constituents listed in Appendix III and IV. Pursuant to §257.90(e)(3), data reports for the background sampling are included in Appendix A, Analytical Results & Field Data Forms. Tables A-1 through A-25, Analytical Data Summary presents a tabulation of the background data for each well.

2.2.2 Initial Detection Monitoring

Following completion of the eight (8) independent sampling events, groundwater samples were collected in October, 2017 and analyzed for Appendix III constituents as part of the first semi-annual detection monitoring event. Pursuant to §257.90(e)(3), data reports for each sampling event is included in Appendix A.

3.0 SAMPLE METHODOLOGY AND ANALYSIS

Sampling events completed during 2017 for AP-1 represent both background data collection and detection monitoring events. The October 2017 sampling event represents the first detection monitoring event for AP-1 at Plant Scherer.

3.1 Groundwater Elevation Measurement

Prior to each sampling event, groundwater elevations were recorded from the certified well network. Groundwater elevations are summarized in Table 3, Summary of Groundwater Elevations. The October 2017 elevation data was used to develop potentiometric surface elevation contour map (Figure 3, Ash Pond Potentiometric Surface Elevation Contour Map – October 2017). The general direction of groundwater flow across AP-1 is east/southeast. This groundwater flow pattern is consistent with historical observations.

3.2 Groundwater Gradient and Flow Velocity

Groundwater flow rates at the site were calculated based on hydraulic gradients, hydraulic conductivity from previous slug test results, and an estimated effective porosity of the screened horizon. Based on slug test data at the site, hydraulic conductivity ranges from 0.06 to 1.28 feet per day (22.2 to 469 feet per year), which is used in the flow calculations. Additional details are provided in the *Installation Report for Surface Impoundment Groundwater Piezometers Georgia Power Plant Scherer, Juliette Georgia* (September 2017). The hydraulic gradient was calculated between well pairs shown on Table 4, Groundwater Flow Velocity Calculations – October 2017. An effective porosity of 0.20 was used based on the default values for effective porosity recommended by USEPA for a silty sand-type soil (U.S. USEPA, 1996).



Horizontal flow velocity was calculated using the commonly-used derivative of Darcy's Law:

$$V = \frac{K * i}{n_e}$$

Where:

$V =$ Groundwater flow velocity $\left(\frac{\text{feet}}{\text{day}}\right)$

$K =$ Average Permeability of the aquifer $\left(\frac{\text{feet}}{\text{day}}\right)$

$i =$ Horizontal hydraulic gradient $\left(\frac{\text{feet}}{\text{feet}}\right)$

$n_e =$ Effective porosity

Using this equation, groundwater flow velocities are calculated for various areas of the site and are tabulated on Table 4. Table 4 presents the velocities calculated using groundwater elevation data from the October 2017 sampling event.

As presented on Table 4 groundwater flow velocity at the site ranges from approximately 0.06 feet/day to 1.3 feet/day (or approximately 22.2 to 469 feet/year) across AP-1. These calculated groundwater flow velocities across the site are consistent with historical calculations. The observed groundwater flow velocities calculated for this monitoring event are also consistent with expected velocities in the regolith-upper bedrock aquifers of Georgia Piedmont and confirm the groundwater monitoring system as properly located to monitor the uppermost aquifer for AP-1 at Plant Scherer. However, these calculated velocities are best estimates based on field data and default data for soils, and therefore, these velocities should not be taken as absolute values, but rather as estimated values that may vary with future data collected at the site.

3.3 Groundwater Sampling

Groundwater samples were collected in accordance with §257.93(a). Monitoring wells were purged and sampled using low-flow sampling procedures. Non-dedicated, low-flow pneumatic bladder pumps were used to purge and sample the wells. During the purging of each well, field measurements of temperature, specific conductance, dissolved oxygen (DO), pH, oxidation-reduction potential (ORP), and turbidity were recorded using a SmarTroll® (In-Situ® field instrument) along with a separate turbidity meter to verify stabilization. Groundwater samples were collected when the following general stabilization criteria were met:

- 0.1 standard units for pH
- 5% for specific conductance
- 0.2 Mg/L or 10% for DO > 0.5 mg/l (whichever is greater)
- Turbidity measurements less than 5 NTU

Any deviation from stabilization criteria, if applicable, is identified on field sampling forms. Following well stabilization, unfiltered samples were collected directly into appropriately preserved laboratory supplied sample containers, placed in iced coolers, and submitted to the laboratory following standard chain-of-custody protocol. Field information forms generated directly from the SmarTroll as well as chain-of-custody records are included in Appendix A.

Where sample turbidity was greater than 5 NTU and all other stabilization criteria were met, samplers continued purging for up to 3 additional hours in order to reduce the turbidity to 5 NTU or less. When



turbidity remained above 5 NTU but was less than 10 NTU, and all other parameters are stabilized, the well was sampled. Where turbidity remained above 10 NTU, an unfiltered sample was collected followed by a filtered sample that has passed through an in-line 0.45-micron filter attached to the discharge (sample collection) tube. The unfiltered sample data are used for compliance monitoring and in the statistical analysis database. Filtered sample data are used to assess the impacts of turbidity on groundwater quality. Details regarding additional filtered samples is recorded on the field information form.

3.4 Laboratory Analyses

Groundwater samples were collected for both Appendix III and Appendix IV parameters for background monitoring. Groundwater samples collected in October 2017 for detection monitoring event were analyzed for Appendix III monitoring parameters only. Analytical methods used for groundwater monitoring parameters can be found on the attached analytical data reports in Appendix A.

Laboratory analyses for the first background event were performed by the GPC Environmental Laboratory (GPCEL) in Smyrna, Georgia. Laboratory analyses for the second background event were performed by Pace Analytical in Atlanta, Georgia and Greensburg, Pennsylvania. The remaining laboratory analyses were performed by Test America, Inc. (TAL), of Pensacola, Florida, and TAL of St. Louis Missouri. The GPCEL, Pace, and TAL are accredited by National Environmental Laboratory Accreditation Program (NELAP) and maintain a NELAP certification for all parameters analyzed for this project. In addition, GPCEL, Pace, and TAL laboratories are certified by the State of Georgia to perform analyses. Groundwater data and chain of custody records for the monitoring events are presented in Appendix A.

3.5 Quality Assurance and Quality Control

During each sampling event, quality assurance/quality control samples (QA/QC) are collected at a rate of one sample per every 10 samples. Equipment blanks (where non-dedicated sampling equipment is used), field blanks, and duplicate samples were also collected during each sampling event. QA/QC sample data was evaluated during data validation and is included in Appendix A.

Groundwater quality data in this report was independently validated in accordance with USEPA guidance (USEPA, 2011) and the analytical methods. Data validation generally consisted of reviewing sample integrity, holding times, laboratory method blanks, laboratory control samples, matrix spikes/matrix spike duplicate recoveries and relative percent differences, post digestions spikes, laboratory and field duplicate RPDs, field and equipment blanks, and reporting limits. Where appropriate, validation qualifiers and flags are applied to the data using USEPA procedures as guidance (USEPA, 2017). Flagged data is identified in the statistical analysis reports described in the following section.

4.0 STATISTICAL ANALYSES

Statistical analysis of Appendix III groundwater monitoring data was performed pursuant to §257.93 following the certified statistical method for AP-1.

4.1 Statistical Method

The selected statistical method for AP-1 was developed in accordance with §257.93(f) using methodology presented in *Statistical Analysis of Groundwater Data at RCRA Facilities, Unified Guidance*, March 2009, USEPA 530/R-09-007 (Unified Guidance). The Sanitas™ Groundwater statistical software was used to perform the statistical analyses. 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 Unified Guidance (2009) document.



Groundwater quality data was evaluated through use of interwell prediction limits for Appendix III parameters. Using this method, upgradient well data was pooled to establish a background statistical limit. Data from the October 2017 detection monitoring event are compared to the statistical limit to determine whether any concentrations exceed background levels. The selected statistical method uses an optional 1-of-2 verification resample plan. When an initial statistically significant increase (SSI) or questionable result occurs, a second sample may be collected to verify the initial result or determine if the result was an outlier.

If resampling is performed and the initial finding is not verified by resampling, the resampled value replaced the initial finding. When the resample confirms the initial finding, both values remain in the database and an SSI is declared. The Sen’s Slope/Mann Kendall trend test was used to statistically evaluate concentration levels over time and determine whether concentrations are increasing, decreasing, or stabilizing.

The following table provides a summary of the statistical methodology used at AP-1 for routine detection groundwater monitoring.

PLANT SCHERER AP-1 STATISTICAL METHOD SUMMARY		
Monitoring Well Network	Upgradient Wells	SGWA-1, SGWA-2, SGWA-3, SGWA-4, SGWA-5, SGWA-24, SGWA-25
	Downgradient Wells	SGWC-6, SGWC-7, SGWC-8, SGWC-9, SGWC-10, SGWC-11, SGWC-12, SGWC-13, SGWC-14, SGWC-15, SGWC-16, SGWC-17, SGWC-18, SGWC-19, SGWC-20, SGWC-21, SGWC-22, SGWC-23
CCR Monitoring Parameters	Appendix III (Detection Monitoring)	Boron, Calcium, Chloride, Fluoride, pH, Sulfate, and TDS
	Appendix IV (Assessment Monitoring)	Antimony, Arsenic, Barium, Beryllium, Cadmium, Chromium, Cobalt, combined Radium 226 + 228, Fluoride, Lead, Lithium, Mercury, Molybdenum, Selenium, and Thallium
Statistical Methodology	Data Screening on Proposed Background	Evaluate outliers, trends, and seasonality when sufficient data are available
	Statistical Limits	Interwell statistical limits will be applied on a constituent basis, depending on the appropriateness of the method as determined by the Analysis of Variance
	Prediction Limits	Parametric when data follow a normal or transformed normal distribution and when less than 50% non-detects, utilizing Kaplan Meier non-detect adjustment when applicable; nonparametric when data sets contain greater than 50% non-detects or when data are not normally or transformed-normally distributed.
	Confidence Intervals	Used in Assessment and Corrective Action monitoring.
	No Statistical Testing	Statistical testing is not required for parameters with 100% non-detects.
	Verification Resample Plan (Optional)	1-of-2 with minimum of 8 samples per well for interwell testing. <ul style="list-style-type: none"> ▪ Initial statistical exceedance warrants independent resampling within 90 days. ▪ If resample passes, well/parameter is not a confirmed statistically significant increase (SSI). ▪ If resample exceeds, well/parameter has a confirmed SSI. ▪ If no resample is collected, the original result is deemed verified.



The following guidance is also applicable to the statistical analysis method:

- Statistical analyses are not performed on analytes containing 100% non-detects (USEPA Unified Guidance, 2009, Chapter 6).
- When data contain less than or equal to 15% non-detects in background, simple substitution of one-half the reporting limit is utilized in the statistical analysis. The reporting limit utilized for non-detects is the PQL as reported by the laboratory.
- When data contain between 15-50% non-detects, a non-detect adjustment such as the Kaplan-Meier or Regression on Order Statistics (ROS) method for adjustment of the mean and standard deviation will be used prior to constructing a parametric prediction limit.
- Nonparametric prediction limits are used on data containing greater than 50% non-detects.

4.2 Statistical Analysis Results

Analytical data from the October 2017 monitoring event at AP-1 has been statistically analyzed in accordance with the site's certified statistical analysis method. Verification resampling to confirm initial SSIs was not performed; therefore, initial SSIs are considered verified. The statistical results of the October 2017 monitoring event are included in Appendix B, Statistical Analyses.

Review of the Sanitas™ results presented in Appendix B indicates that the following verified SSIs were identified:

AP-1 Inter-Well Prediction Limit Statistically Significant Increase Summary	
Appendix III Parameter	AP-1 Monitoring Wells
Boron	SGWC-8, SGWC-9, SGWC-11, SGWC-13, SGWC-14, SGWC-15, SGWC-16, SGWC-17, SGWC-18, SGWC-19, SGWC-20, SGWC-21, SGWC-22, SGWC-23
Calcium	SGWC-7, SGWC-8, SGWC-9, SGWC-12, SGWC-14, SGWC-17, SGWC-18, SGWC-19, SGWC-21, SGWC-22, SGWC-23
Chloride	SGWC-7, SGWC-8, SGWC-9, SGWC-10, SGWC-11, SGWC-12, SGWC-13, SGWC-14, SGWC-15, SGWC-16, SGWC-17, SGWC-18, SGWC-19, SGWC-20, SGWC-21, SGWC-22, SGWC-23
Fluoride	SGWC-7, SGWC-8
pH	SGWC-15, SGWC-18, SGWC-20
Sulfate	SGWC-7, SGWC-8, SGWC-9, SGWC-12, SGWC-13, SGWC-14, SGWC-15, SGWC-16, SGWC-17, SGWC-18, SGWC-19, SGWC-20, SGWC-21, SGWC-22, SGWC-23
Total Dissolved Solids	SGWC-7, SGWC-8, SGWC-9, SGWC-12, SGWC-13, SGWC-14, SGWC-15, SGWC-17, SGWC-18, SGWC-19, SGWC-20, SGWC-21, SGWC-22, SGWC-23

Pursuant to §257.94(e), within 90 days from determining an SSI, GPC will either (1) prepare a demonstration that a source other than the AP-1 was the cause, or (2) implement assessment monitoring per §257.95.

4.3 Appendix IV Background Data

Pursuant to §257.95, Appendix IV groundwater quality data is statistically analyzed and compared to groundwater protection standards if assessment monitoring is implemented. Plant Scherer is currently



performing detection monitoring per §257.94 and as of January 2018, has not implemented assessment monitoring. Therefore, statistical analysis of the Appendix IV data has not been performed.

5.0 MONITORING PROGRAM STATUS

Plant Scherer AP-1 is in detection monitoring. Table 2 presents the status of each well within the certified monitoring network for AP-1. SSIs of Appendix III parameters have been identified. GPC will address the reported SSIs in accordance with the requirements, and options, of §257.94(e)(1-3) and (f).

6.0 CONCLUSIONS AND FUTURE ACTIONS

This *2017 Annual Groundwater Monitoring and Corrective Action Report, Georgia Power Plant Scherer Ash Pond (AP-1)* has been prepared to fulfill the requirements of USEPA CCR rule 40 CFR 257 Subpart D.

Statistical evaluations of the groundwater monitoring data for AP-1 identified SSIs of Appendix III groundwater monitoring parameters. In accordance with §257.94(e)(1-2), GPC will prepare an alternate source demonstration or initiate an assessment monitoring program within 90 days. The next scheduled sampling event is scheduled for March 2018.



7.0 REFERENCES

- EPRI, 2015 Technical Report, *Groundwater Monitoring Guidance for the Coal Combustion Residuals Rule*.
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TABLES & FIGURES

**TABLE 1.
MONITORING WELL NETWORK
Georgia Power - Plant Scherer
Juliette, GA**

Well ID	Former Designation(s)	Hydraulic Location	Geologic Unit Screened	Latitude	Longitude	Top of Casing Elevation (feet msl)	Total Depth (feet bgs)	Top of Screen Elevation (feet msl)	Bottom of Screen Elevation (feet msl)	Screen Length (feet)	Date of Installation
ASH POND MONITORING WELL NETWORK											
SGWA-1	APA-1/PZ-8S	Upgradient	Saprolite	33.07657	-83.82937	546.81	53.4	503.8	493.8	10.0	2/11/2015
SGWA-2	APA-11/PZ-8I	Upgradient	Bedrock	33.07658	-83.82935	546.81	98.5	502.7	492.7	10.0	2/17/2015
SGWA-3	APA-2	Upgradient	Saprolite	33.07930	-83.83133	545.65	52.8	502.5	492.5	10.0	11/18/2015
SGWA-4	APA-3	Upgradient	Saprolite	33.08273	-83.82535	547.27	63.2	493.8	483.8	10.0	11/17/2015
SGWA-5	APA-4	Upgradient	Saprolite	33.07344	-83.83746	508.11	32.8	485.1	475.1	10.0	11/18/2015
SGWC-6	APC-1	Downgradient	Saprolite	33.08462	-83.82255	510.57	27.6	492.9	482.9	10.0	11/12/2015
SGWC-7	APC-2	Downgradient	Bedrock	33.08599	-83.82163	506.05	37.7	478.0	468.0	10.0	11/11/2015
SGWC-8	APC-3	Downgradient	Bedrock	33.08653	-83.81928	513.93	42.6	481.1	471.1	10.0	11/10/2015
SGWC-9	APC-4	Downgradient	Saprolite	33.08589	-83.81773	510.37	37.8	482.6	472.6	10.0	11/6/2015
SGWC-10	APC-5	Downgradient	Saprolite	33.08385	-83.81580	509.22	32.6	486.3	476.3	10.0	11/5/2015
SGWC-11	APC-6	Downgradient	Saprolite	33.08288	-83.81488	511.28	42.7	478.3	468.3	10.0	10/29/2015
SGWC-12	APC-7	Downgradient	Saprolite	33.08296	-83.81267	500.29	50.2	460.4	450.4	10.0	10/30/2015
SGWC-13	APC-8	Downgradient	Saprolite	33.08213	-83.81022	482.58	37.5	454.8	444.8	10.0	11/4/2015
SGWC-14	APC-9/PZ-16S	Downgradient	Saprolite	33.08127	-83.80836	476.48	38.5	448.5	438.5	10.0	2/24/2015
SGWC-15	APC-10/PZ-17S	Downgradient	Saprolite	33.07914	-83.80588	483.27	48.2	445.5	435.5	10.0	2/26/2015
SGWC-16	APC-11/PZ-18S	Downgradient	Saprolite	33.07647	-83.80569	460.03	43.3	428.1	418.1	10.0	3/3/2015
SGWC-17	APC-12/PZ-20S	Downgradient	Saprolite	33.07396	-83.80533	417.96	27.6	400.7	390.7	10.0	3/11/2015
SGWC-18	APC-13/PZ-22S	Downgradient	Saprolite	33.07022	-83.80644	513.18	47.4	476.2	466.2	10.0	3/17/2015
SGWC-19	APC-14/PZ-23S	Downgradient	Saprolite	33.06769	-83.80918	478.67	37.4	451.6	441.6	10.0	3/18/2015
SGWC-20	APC-15	Downgradient	Saprolite	33.06769	-83.81175	504.44	27.9	486.1	476.1	10.0	11/19/2015
SGWC-21	APC-16/PZ-1S	Downgradient	Saprolite	33.06602	-83.81538	487.54	27.6	470.3	460.3	10.0	5/6/2015
SGWC-22	APC-17/PZ-2S	Downgradient	Saprolite	33.06639	-83.81928	518.07	52.6	479.1	469.1	10.0	1/22/2015
SGWC-23	APC-18/PZ-4I	Downgradient	Bedrock	33.06957	-83.82211	523.07	52.6	480.8	470.8	10.0	2/3/2015
SGWA-24	APA-5/PZ-7S	Upgradient	Saprolite	33.07352	-83.82663	503.86	42.9	473.2	463.2	10.0	2/10/2015
SGWA-25	APA-6/PZ-9S	Upgradient	Saprolite	33.08020	-83.82623	526.39	48.0	488.8	478.8	10.0	2/18/2015

Notes:

1. feet msl = feet mean sea level
2. feet bgs = feet below ground surface

TABLE 2.
GROUNDWATER SAMPLING EVENT SUMMARY
Georgia Power Company - Plant Scherer
Juliette, Georgia

Well ID	Hydraulic Location	Summary of Sampling Events									Status of Monitoring Well
		May 2016	June 2016	August 2016	October 2016	December 2016	February 2016	April 2017	June 2017	October 2017	
Purpose of Sampling Event		Background	Background	Background	Background	Background	Background	Background	Background	Detection	
ASH POND (AP-1)											
SGWA-1	Upgradient	BG01	BG02	BG03	BG04	BG05	BG06	BG07	BG08	D01	Detection
SGWA-2	Upgradient	BG01	BG02	BG03	BG04	BG05	BG06	BG07	BG08	D01	Detection
SGWA-3	Upgradient	BG01	BG02	BG03	BG04	BG05	BG06	BG07	BG08	D01	Detection
SGWA-4	Upgradient	BG01	BG02	BG03	BG04	BG05	BG06	BG07	BG08	D01	Detection
SGWA-5	Upgradient	BG01	BG02	BG03	BG04	BG05	BG06	BG07	BG08	D01	Detection
SGWC-6	Downgradient	BG01	BG02	BG03	BG04	BG05	BG06	BG07	BG08	D01	Detection
SGWC-7	Downgradient	BG01	BG02	BG03	BG04	BG05	BG06	BG07	BG08	D01	Detection
SGWC-8	Downgradient	BG01	BG02	BG03	BG04	BG05	BG06	BG07	BG08	D01	Detection
SGWC-9	Downgradient	BG01	BG02	BG03	BG04	BG05	BG06	BG07	BG08	D01	Detection
SGWC-10	Downgradient	BG01	BG02	BG03	BG04	BG05	BG06	BG07	BG08	D01	Detection
SGWC-11	Downgradient	BG01	BG02	BG03	BG04	BG05	BG06	BG07	BG08	D01	Detection
SGWC-12	Downgradient	BG01	BG02	BG03	BG04	BG05	BG06	BG07	BG08	D01	Detection
SGWC-13	Downgradient	BG01	BG02	BG03	BG04	BG05	BG06	BG07	BG08	D01	Detection
SGWC-14	Downgradient	BG01	BG02	BG03	BG04	BG05	BG06	BG07	BG08	D01	Detection
SGWC-15	Downgradient	BG01	BG02	BG03	BG04	BG05	BG06	BG07	BG08	D01	Detection
SGWC-16	Downgradient	BG01	BG02	BG03	BG04	BG05	BG06	BG07	BG08	D01	Detection
SGWC-17	Downgradient	BG01	BG02	BG03	BG04	BG05	BG06	BG07	BG08	D01	Detection
SGWC-18	Downgradient	BG01	BG02	BG03	BG04	BG05	BG06	BG07	BG08	D01	Detection
SGWC-19	Downgradient	BG01	BG02	BG03	BG04	BG05	BG06	BG07	BG08	D01	Detection
SGWC-20	Downgradient	BG01	BG02	BG03	BG04	BG05	BG06	BG07	BG08	D01	Detection
SGWC-21	Downgradient	BG01	BG02	BG03	BG04	BG05	BG06	BG07	BG08	D01	Detection
SGWC-22	Downgradient	BG01	BG02	BG03	BG04	BG05	BG06	BG07	BG08	D01	Detection
SGWC-23	Downgradient	BG01	BG02	BG03	BG04	BG05	BG06	BG07	BG08	D01	Detection
SGWA-24	Upgradient	BG01	BG02	BG03	BG04	BG05	BG06	BG07	BG08	D01	Detection
SGWA-25	Upgradient	BG01	BG02	BG03	BG04	BG05	BG06	BG07	BG08	D01	Detection

Notes:

BGXX = Background Event and Number

Dxx - Detection Event Number



TABLE 3.
SUMMARY OF GROUNDWATER ELEVATIONS
Georgia Power - Plant Scherer
Juliette, GA

Well ID	Top of Casing Elevation (feet/MSL)	GROUNDWATER ELEVATIONS (FEET MSL)								
		5/10/216	6/16/2017	8/8/2016	10/3/2016	11/28/2016	2/6/2017	4/4/2017	6/19/2017	10/3/2017
ASH POND										
SGWA-1	546.81	512.13	510.06	508.14	506.12	504.30	506.52	507.33	506.31	503.43
SGWA-2	546.81	512.58	509.47	508.00	505.92	504.08	507.39	508.02	506.61	503.48
SGWA-3	545.65	515.95	510.64	512.92	511.40	509.93	512.90	512.40	511.21	509.26
SGWA-4	547.27	500.12	498.97	500.63	500.07	499.11	498.22	497.81	499.57	496.76
SGWA-5	508.11	493.56	492.75	492.01	490.93	489.71	490.85	490.99	490.68	489.23
SGWC-6	510.57	497.34	494.31	495.95	495.33	494.65	495.33	495.64	495.47	494.65
SGWC-7	506.05	493.51	493.08	492.60	492.01	491.30	491.60	491.84	491.91	491.18
SGWC-8	513.93	493.70	493.07	492.51	491.97	491.23	491.82	492.05	491.86	491.05
SGWC-9	510.37	491.16	490.02	489.93	489.39	488.94	490.07	490.14	489.77	489.13
SGWC-10	509.22	493.46	491.46	491.77	491.29	490.87	492.81	492.81	492.27	491.58
SGWC-11	511.28	494.01	490.99	492.19	491.75	491.47	493.65	493.44	492.76	492.08
SGWC-12	500.29	486.89	483.19	485.09	484.58	484.18	486.12	485.89	485.33	485.67
SGWC-13	482.58	478.62	477.44	478.17	478.12	478.21	478.79	478.67	478.31	478.30
SGWC-14	476.48	465.83	465.31	465.34	465.27	465.49	466.08	465.97	465.54	465.60
SGWC-15	483.27	455.73	454.16	453.44	453.04	452.64	455.61	455.65	454.70	453.64
SGWC-16	460.03	436.54	434.83	434.19	433.80	433.61	437.75	436.53	435.08	434.41
SGWC-17	417.96	417.38	416.91	417.31	417.42	417.38	417.56	417.54	417.46	417.96
SGWC-18	513.18	480.73	478.94	477.91	476.71	475.89	478.65	477.77	476.68	476.81
SGWC-19	478.67	463.21	461.28	461.85	461.74	461.46	463.47	462.92	462.47	462.65
SGWC-20	504.44	491.58	490.18	490.65	490.04	489.55	492.01	491.09	490.76	490.44
SGWC-21	487.54	486.92	486.16	486.04	485.58	485.61	486.85	486.61	486.17	485.79
SGWC-22	518.07	493.11	489.87	491.15	490.71	490.18	492.82	492.47	492.25	491.23
SGWC-23	523.07	492.36	491.72	491.26	490.73	490.02	491.27	491.91	492.06	491.86
SGWA-24	503.86	490.24	489.11	488.54	487.96	487.44	490.05	489.46	488.61	487.66
SGWA-25	526.39	500.99	498.99	497.47	496.44	495.19	497.91	498.16	497.14	495.44
PIEZOMETERS										
PZ-2I	517.61	NM	NM	NM	NM	NM	492.25	491.88	491.86	490.70
PZ-3	517.29	NM	NM	NM	NM	NM	489.75	489.78	489.89	489.30
PZ-5S	523.24	NM	NM	NM	NM	NM	484.42	484.44	483.93	482.95
PZ-6S	531.48	NM	NM	NM	NM	NM	494.94	495.39	495.38	494.75
PZ-9I	527.49	NM	NM	NM	NM	NM	498.96	499.33	498.35	496.74
PZ-10S	516.81	NM	NM	NM	NM	NM	493.38	493.79	493.35	492.25
PZ-11S	529.21	NM	NM	NM	NM	NM	490.45	490.70	490.51	489.80
PZ-12S	517.65	NM	NM	NM	NM	NM	488.93	489.14	488.82	488.12
PZ-13S	520.21	NM	NM	NM	NM	NM	491.16	491.51	490.83	489.70

TABLE 3.
SUMMARY OF GROUNDWATER ELEVATIONS
Georgia Power - Plant Scherer
Juliette, GA

Well ID	Top of Casing Elevation (feet/MSL)	GROUNDWATER ELEVATIONS (FEET MSL)								
		5/10/216	6/16/2017	8/8/2016	10/3/2016	11/28/2016	2/6/2017	4/4/2017	6/19/2017	10/3/2017
PIEZOMETERS										
PZ-14S	511.86	NM	NM	NM	NM	NM	489.43	489.26	488.42	487.24
PZ-14I	512.61	NM	NM	NM	NM	NM	NM	489.30	488.46	487.27
PZ-15S	499.06	NM	NM	NM	NM	NM	NM	NM	488.52	480.34
PZ-17I	483.23	NM	NM	NM	NM	NM	455.77	455.74	454.71	453.58
PZ-19I	417.48	NM	NM	NM	NM	NM	414.56	414.38	413.69	413.18
PZ-19S	417.67	NM	NM	NM	NM	NM	414.00	413.87	413.12	412.92
PZ-20I	417.11	NM	NM	NM	NM	NM	415.18	415.10	414.91	414.78
PZ-21S	473.42	NM	NM	NM	NM	NM	466.12	465.77	465.23	465.00
PZ-25S	527.91	NM	NM	NM	NM	NM	491.12	491.20	490.35	489.11
PZ-25I	528.09	NM	NM	NM	NM	NM	491.42	491.13	490.26	489.09
PZ-26S	491.36	NM	NM	NM	NM	NM	476.08	475.46	474.95	474.49
PZ-27S	475.57	NM	NM	NM	NM	NM	471.18	470.91	469.73	469.42
PZ-27D	475.18	NM	NM	NM	NM	NM	474.47	474.17	473.54	473.06
PZ-28S	483.91	NM	NM	NM	NM	NM	466.60	466.21	465.40	464.85
PZ-29S	491.02	NM	NM	NM	NM	NM	460.93	461.07	NM	459.84
PZ-30S	478.03	NM	NM	NM	NM	NM	447.87	448.45	448.04	446.59
PZ-31I	466.56	NM	NM	NM	NM	NM	436.13	436.53	435.96	434.54
PZ-32S	464.82	NM	NM	NM	NM	NM	437.52	438.68	438.33	436.36
PZ-32D	465.18	NM	NM	NM	NM	NM	435.64	436.03	435.46	433.98
PZ-33S	469.08	NM	NM	NM	NM	NM	423.93	424.28	423.67	422.44
PZ-35S	474.17	NM	NM	NM	NM	NM	471.02	470.71	469.56	469.25
PZ-36I	481.42	NM	NM	NM	NM	NM	450.91	451.30	NM	448.22
PZ-37S	482.02	NM	NM	NM	NM	NM	432.29	432.13	432.04	431.42
PZ-38S	481.96	NM	NM	NM	NM	NM	467.06	466.95	466.06	465.48
LPZ-1	553.16	NM	NM	NM	NM	NM	493.81	493.78	493.66	492.36
LPZ-2	513.96	NM	NM	NM	NM	NM	509.73	509.97	508.75	507.50
LPZ-3	515.11	NM	NM	NM	NM	NM	507.03	506.55	505.26	503.61
LPZ-4	461.06	NM	NM	NM	NM	NM	446.13	446.60	445.87	444.20
LPZ-5	524.28	NM	NM	NM	NM	NM	476.31	476.38	476.06	474.96

Notes:

Feet MSL = feet above mean sea level

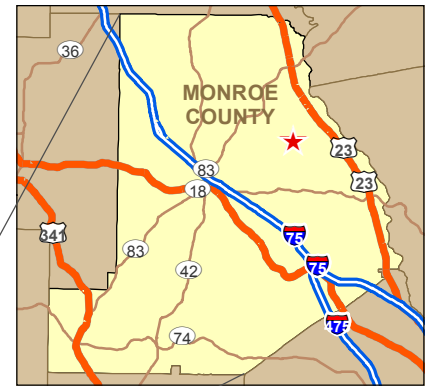
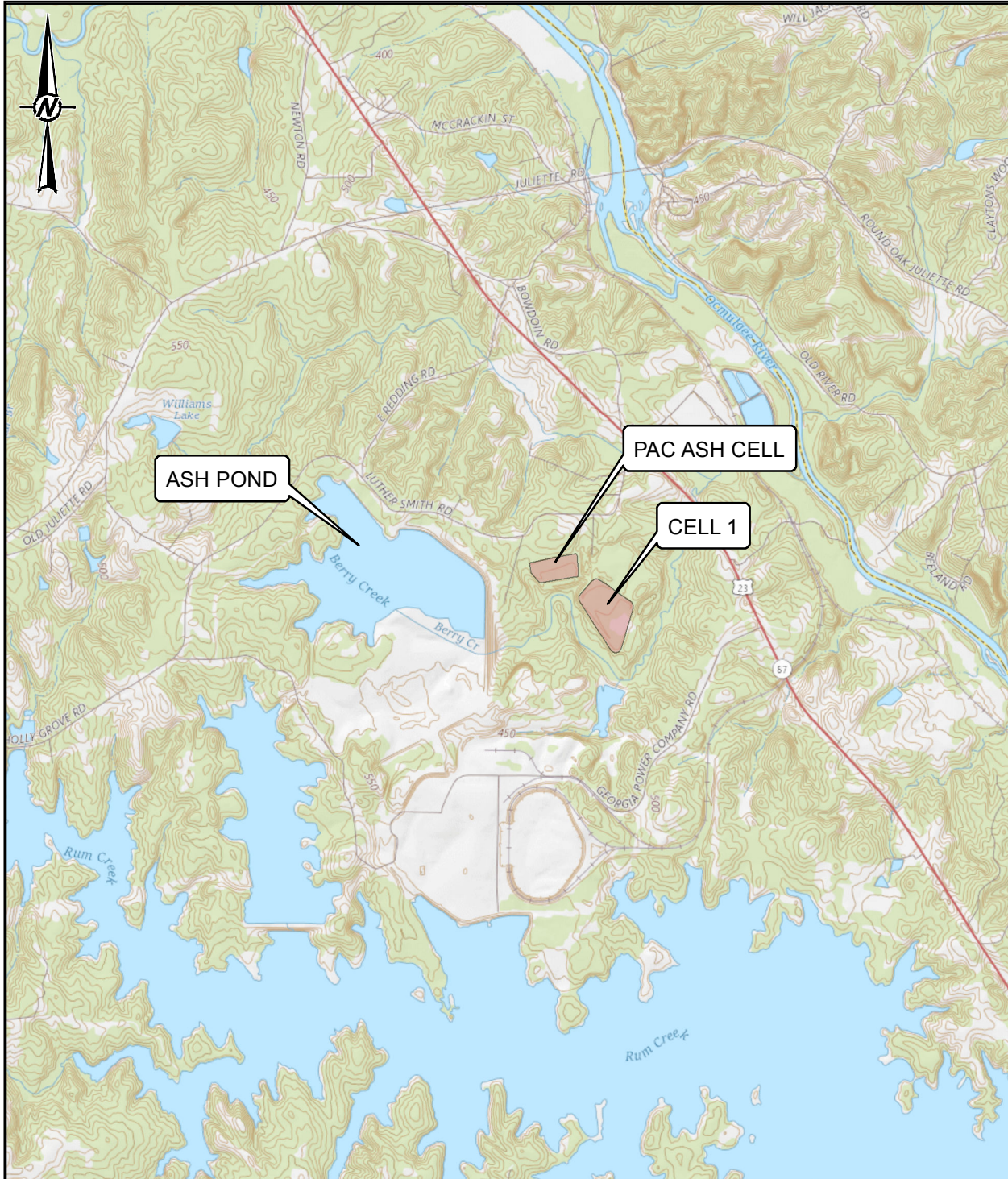
NM = Not Measured

TABLE 4.
GROUNDWATER VELOCITY CALCULATIONS - OCTOBER 2017
Georgia Power - Plant Scherer Ash Pond
Juliette, GA

Flow Paths	Groundwater Elevation (feet msl)	h (feet) ²	l (feet) ³	Hydraulic Gradient (h/ l)	Average Hydraulic Conductivity, K (feet per day) ⁵	Assumed Effective Porosity (n _e)	Average Linear Groundwater Velocity	
							(feet per day) ⁴	(feet per year) ⁴
ASH POND								
SGWC-14/PZ-29S	465.60	5.76	503.0	0.011	1.06 to 2.34	0.2	0.06 to 0.13	22.2 to 48.9
	459.84							
SGWC-13/PZ-35S	478.30	9.05	293.0	0.0309	1.06 to 2.34	0.2	0.16 to 0.36	59.8 to 131.9
	469.25							
LPZ-3/LPZ-4	503.61	59.41	541.0	0.110	1.06 to 2.34	0.2	0.58 to 1.28	212.4 to 469.0
	444.20							

Notes:

1. Δ H = Change in groundwater elevation.
2. Δ L = Distance along flow path.
3. $I = \Delta H / \Delta L$.
4. $Velocity = (I * K) / n_e$.
5. Hydraulic conductivity range based on historic aquifer performance tests (revised 3/2017).
6. Effective porosity based on fracture occurrence.



Service Layer Credits: USGS The National Map: National Boundaries Dataset, National Elevation Dataset, Geographic Names Information System, National



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PLANT SCHERER



PROJECT
2017 ANNUAL GROUNDWATER MONITORING AND
CORRECTIVE ACTION REPORT, GEORGIA POWER COMPANY
PLANT SCHERER ASH POND (AP-1)

TITLE
SITE LOCATION MAP

CONSULTANT



YYYY-MM-DD 2018-01-31

PREPARED DJC

DESIGN DLP

REVIEW *djp*

APPROVED *rpk*

PROJECT No.
1662350

CONTROL
1662350H000-GIS.mxd

Rev.
0

FIGURE
1



LEGEND

- ASH POND-CCR MONITORING WELL
- ▲ PIEZOMETER LOCATION

NOTES

1. ALL LOCATIONS AND BOUNDARIES ARE APPROXIMATE.

REFERENCE

1. SERVICE LAYER CREDITS: ESRI, HERE, DELORME, MAPMYINDIA, © OPENSTREETMAP CONTRIBUTORS, AND THE GIS USER COMMUNITY
SOURCE: ESRI, DIGITALGLOBE, GEOEYE, EARTHSTAR GEOGRAPHICS, CNES/AIRBUS DS, USDA, USGS, AEROGRIID, IGN, AND THE GIS USER COMMUNITY
2. COORDINATE SYSTEM: NAD 1983 STATE PLAN GEORGIA WEST (U.S. FEET).
3. MONITORING WELL/PIEZOMETER LOCATIONS PROVIDED BY SOUTHERN COMPANY SERVICES.



CLIENT
SOUTHERN COMPANY SERVICES, INC.
PLANT SCHERER



PROJECT
2017 ANNUAL GROUNDWATER MONITORING AND CORRECTIVE ACTION REPORT, GEORGIA POWER COMPANY PLANT SCHERER ASH POND (AP-1)

TITLE
SITE PLAN AND MONITORING WELL LOCATION MAP

CONSULTANT	YYYY-MM-DD	2018/02/13
	PREPARED	DJC
	DESIGN	DLP
	REVIEW	dlp
	APPROVED	rpk

Path: H:\186\Projects\1662350_Southern Company Services\Figures\1-2017_GW_MON_AND_CORR_ACTION_RPT\1662350H002-GIS.mxd

Service Layer Credits: Esri, HERE, DeLorme, MapmyIndia, © OpenStreetMap contributors, and the GIS user community
Source: Esri, DigitalGlobe, GeoEye, Earthstar Geographics, CNES/Airbus DS, USDA, USGS, AeroGRID, IGN, and the GIS User Community

1in IF THIS MEASUREMENT DOES NOT MATCH WHAT IS SHOWN, THE SHEET HAS BEEN MODIFIED FROM ANSB



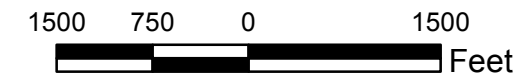
- LEGEND**
- GROUNDWATER ELEVATION CONTOUR (FAMSL)
 - SCHERER ASH POND-CCR MONITORING WELL
 - CELL 1 MONITORING WELL
 - PAC ASH CELL MONITORING WELL
 - PIEZOMETER

- NOTES**
1. ALL LOCATIONS AND BOUNDARIES ARE APPROXIMATE.
 2. GROUNDWATER ELEVATION MEASUREMENTS OBTAINED OCTOBER 3, 2017 BY GOLDER ASSOCIATES.
 3. GROUNDWATER ELEVATIONS DISPLAYED IN FEET ABOVE MEAN SEA LEVEL (FAMSL).
 4. DEEP AND INTERMEDIATE WELL GROUNDWATER ELEVATIONS WERE NOT USED TO GENERATE GROUNDWATER CONTOURS.

REFERENCE

1. SERVICE LAYER CREDITS: SOURCE: ESRI, DIGITALGLOBE, GEOEYE, EARTHSTAR GEOGRAPHICS, CNES/AIRBUS DS, USDA, USGS, AERGRID, IGN, AND THE GIS USER COMMUNITY
 USGS THE NATIONAL MAP: NATIONAL BOUNDARIES DATASET, NATIONAL ELEVATION DATASET, GEOGRAPHIC NAMES INFORMATION SYSTEM, NATIONAL HYDROGRAPHY DATASET, NATIONAL LAND COVER DATABASE, NATIONAL STRUCTURES DATASET, AND NATIONAL TRANSPORTATION DATASET; U.S. CENSUS BUREAU - TIGER/LINE; HERE ROAD DATA

2. COORDINATE SYSTEM: NAD 1983 STATE PLAN GEORGIA WEST (U.S. FEET).



CLIENT
 SOUTHERN COMPANY SERVICES, INC.
 PLANT SCHERER

PROJECT
 2017 ANNUAL GROUNDWATER MONITORING AND CORRECTIVE ACTION REPORT, GEORGIA POWER COMPANY PLANT SCHERER ASH POND (AP-1)

TITLE
**ASH POND POTENTIOMETRIC SURFACE MAP
 OCTOBER 2017**

CONSULTANT	YYYY-MM-DD	2018-01-29
	PREPARED	DJC
	DESIGN	DLP
	REVIEW	dlp
	APPROVED	rpk

PROJECT No. 1662350 CONTROL 1662350H001-GIS.mxd Rev. 0 FIGURE 3

Service Layer Credits: Source: Esri, DigitalGlobe, GeoEye, Earthstar Geographics, CNES/Airbus DS, USDA, USGS, AeroGRID, IGN, and the GIS User Community
 USGS The National Map: National Boundaries Dataset, National Elevation Dataset, Geographic Names Information System, National Hydrography Dataset, National Land Cover Database, National Structures Dataset, and National Transportation Dataset; U.S. Census Bureau - TIGER/Line; HERE Road Data

Path: H:\1662350-Southern Company Services\fig\mex\1662350H001-GIS.mxd

1 in IF THIS MEASUREMENT DOES NOT MATCH WHAT IS SHOWN, THE SHEET HAS BEEN MODIFIED FROM ANSIS



APPENDIX A

ANALYTICAL RESULTS & FIELD DATA FORMS

Table A-1.
ANALYTICAL DATA SUMMARY
Georgia Power - Plant Scherer Ash Pond
Juliette, GA

Substance		MCL/ (SMCL)	WELL ID								
			SGWA-1	SGWA-1	SGWA-1	SGWA-1	SGWA-1	SGWA-1	SGWA-1	SGWA-1	
			5/10/2016	6/26/2016	8/15/2016	10/13/2016	12/6/2016	2/14/2017	4/11/2017	6/26/2017	
APPENDIX III	Boron	N/R	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Calcium	N/R	3	2.42	2.1	2.7	2.1	1.8	1.8	1.7	
	Chloride	(250)	1.9	2.2	2.1	2	2.2	2	1.8	1.9	
	Fluoride	4	ND	ND	ND	ND	ND	ND	ND	ND	
	Sulfate	(250)	ND (0.6766 J)	ND (0.94 J)	1.2	2.9	3.2	ND (0.76 J)	ND	ND (0.74 J)	
	TDS	(500)	44	38	22	66	54	18	50	60	
APPENDIX IV	Antimony	0.006	ND	ND (0.0004 J)	ND (0.0012 J)	ND	ND	ND	ND	ND	
	Arsenic	0.01	ND	ND	ND (0.00065 J)	ND	ND	ND (0.00055 J)	ND	ND (0.00081 J)	
	Barium	2	0.0663	0.055	0.048	0.061	0.053	0.046	0.046	0.048	
	Beryllium	0.004	ND	ND (0.0002 J)	ND	ND	ND	ND	ND	ND	
	Cadmium	0.005	ND (0.000156 J)	ND	ND	ND	ND	ND	ND	ND	
	Chromium	0.1	ND	ND	ND	ND	ND	ND	ND	ND	
	Cobalt	N/R	0.0184	0.0168	0.016	0.02	0.016	0.011	0.0098	0.01	
	Lead	0.015	ND	ND	ND	ND	ND	ND	ND	ND	
	Lithium	N/R	ND	ND (0.0013 J)	ND	ND	ND	ND	ND	ND	
	Mercury	0.002	ND	ND	ND	ND	ND (0.00012 J)	ND	ND	ND	
	Molybdenum	N/R	ND	ND	ND	ND	ND	ND	ND	ND	
	Radium	5	0.275 U	0.000 U	0.130 U	0.309 U	0.346 U	0.352 U	0.274 U	0.360	
Selenium	0.05	ND	ND	ND	ND	ND	ND	ND	ND		
Thallium	0.002	ND	ND (0.00008 J)	ND (0.000095 J)	ND	ND	ND	ND	ND		

Notes:

1. MCL indicates Environmental Protection Agency (EPA) and Georgia Environmental Protection Division (EPD) maximum contaminant level.
2. (SMCL) indicates a secondary MCL that is established by EPA as a general guideline only (not enforced).
3. Results for substances are reported in milligrams per liter (mg/L). Radium results are reported in picocuries per liter (pCi/L).
4. ND (Not Detected) indicates the substance was not detected above the analytical method detection limit (MDL).
5. ND (value J) indicates the substance was detected at such low levels that the precision of the laboratory instruments could not produce a reliable value. Therefore, the value displayed (value J) is qualified by the laboratory as an estimated number.
6. N/R indicates a substance does not have an MCL or SMCL, but will be further evaluated statistically at the conclusion of all the background sampling events, as required by EPA's CCR rule.
7. TDS indicates total dissolved solids.
8. U indicates the substance was detected below the Minimum Detection Concentration (MDC) and the precision of the laboratory instruments could not produce a reliable value. Therefore, the value followed by U is qualified by the laboratory as estimated.
9. Appendix III = indicator parameters evaluated during Detection Monitoring; Appendix IV = parameters evaluated during Assessment Monitoring.

Table A-2.
ANALYTICAL DATA SUMMARY
Georgia Power - Plant Scherer Ash Pond
Juliette, GA

Substance	MCL/ (SMCL)	WELL ID								
		SGWA-2	SGWA-2	SGWA-2	SGWA-2	SGWA-2	SGWA-2	SGWA-2	SGWA-2	SGWA-2
		5/10/2016	6/23/2016	8/16/2016	10/14/2016	12/6/2016	2/14/2017	4/11/2017	6/26/2017	
APPENDIX III	Boron	N/R	ND	ND	ND	ND	ND	ND	ND	ND
	Calcium	N/R	10.1	8.45	9.4	10	10	11	10	10
	Chloride	(250)	1.51	1.8	1.5	1.4	1.5	1.5	1.3	1.4
	Fluoride	4	ND (0.0537 J)	ND (0.03 J)	ND	ND	ND	ND	ND	ND
	Sulfate	(250)	ND (0.4053 J)	ND (0.55 J)	ND	ND	ND	ND	ND	ND
	TDS	(500)	96	91	100	100	110	76	120	110
APPENDIX IV	Antimony	0.006	ND	ND	ND	ND	ND	ND	ND	ND
	Arsenic	0.01	ND	ND	ND (0.0005 J)	ND	ND	ND (0.00046 J)	ND	ND (0.00089 J)
	Barium	2	0.0409	0.0342	0.034	0.041	0.042	0.035	0.037	0.037
	Beryllium	0.004	ND	ND	ND	ND	ND	ND	ND	ND
	Cadmium	0.005	ND	ND	ND	ND	ND	ND	ND	ND
	Chromium	0.1	0.0142	0.0118	0.0099	0.0045	0.0043	0.014	0.014	0.014
	Cobalt	N/R	ND	ND (0.0004 J)	ND	ND	ND	ND	ND	ND
	Lead	0.015	ND	ND	ND	ND	ND	ND	ND	ND
	Lithium	N/R	ND	ND	ND	ND	ND	ND	ND	ND
	Mercury	0.002	ND	ND	ND	ND	ND (0.00011 J)	ND	ND	ND
	Molybdenum	N/R	ND	ND	ND	ND	ND	ND	ND	ND
	Radium	5	0.441	0.155 U	0.621	0.765	0.290 U	0.111 U	0.195 U	0.0975
Selenium	0.05	ND	ND	ND	ND	ND	ND	ND	ND	
Thallium	0.002	ND	ND	ND	ND	ND	ND	ND	ND	

Notes:

1. MCL indicates Environmental Protection Agency (EPA) and Georgia Environmental Protection Division (EPD) maximum contaminant level.
2. (SMCL) indicates a secondary MCL that is established by EPA as a general guideline only (not enforced).
3. Results for substances are reported in milligrams per liter (mg/L). Radium results are reported in picocuries per liter (pCi/L).
4. ND (Not Detected) indicates the substance was not detected above the analytical method detection limit (MDL).
5. ND (value J) indicates the substance was detected at such low levels that the precision of the laboratory instruments could not produce a reliable value. Therefore, the value displayed (value J) is qualified by the laboratory as an estimated number.
6. N/R indicates a substance does not have an MCL or SMCL, but will be further evaluated statistically at the conclusion of all the background sampling events, as required by EPA's CCR rule.
7. TDS indicates total dissolved solids.
8. U indicates the substance was detected below the Minimum Detection Concentration (MDC) and the precision of the laboratory instruments could not produce a reliable value. Therefore, the value followed by U is qualified by the laboratory as estimated.
9. Appendix III = indicator parameters evaluated during Detection Monitoring; Appendix IV = parameters evaluated during Assessment Monitoring.

Table A-3.
ANALYTICAL DATA SUMMARY
Georgia Power - Plant Scherer Ash Pond
Juliette, GA

Substance		MCL/ (SMCL)	WELL ID							
			SGWA-3	SGWA-3	SGWA-3	SGWA-3	SGWA-3	SGWA-3	SGWA-3	SGWA-3
			5/10/2016	6/24/2016	8/16/2016	10/14/2016	12/6/2016	2/14/2017	4/11/2017	6/26/2017
APPENDIX III	Boron	N/R	ND	ND (0.0109 J)	ND	ND	ND	ND	ND	ND
	Calcium	N/R	6.22	5.55	5	5.4	4.8	4.6	5	4.9
	Chloride	(250)	3.45	3.5	3.4	3.1	3	2.4	2.5	2.6
	Fluoride	4	ND (0.0192 J)	ND (0.02 J)	ND	ND	ND	ND	ND	ND
	Sulfate	(250)	2.82	2.3	1.5	1.2	1.3	1.9	1.3	1.5
	TDS	(500)	59	39	38	34	70	32	64	64
APPENDIX IV	Antimony	0.006	ND	ND (0.0021 J)	ND	ND	ND	ND	ND	ND
	Arsenic	0.01	ND	ND	ND	ND	ND	ND	ND	ND (0.00063 J)
	Barium	2	0.036	0.0343	0.029	0.034	0.033	0.032	0.033	0.036
	Beryllium	0.004	ND	ND	ND	ND	ND	ND	ND	ND
	Cadmium	0.005	ND	ND	ND	ND	ND	ND	ND	ND
	Chromium	0.1	ND (0.00634 J)	ND (0.0053 J)	0.0071	0.0067	0.0063	0.0076	0.0098	0.012
	Cobalt	N/R	ND	ND	ND (0.00051 J)	ND	ND	ND	ND	ND
	Lead	0.015	ND	ND	ND	ND	ND	ND	ND	ND
	Lithium	N/R	ND	ND	ND	ND	ND	ND	ND	ND
	Mercury	0.002	ND	ND	ND	ND	ND (0.000087 J)	ND	ND	ND
	Molybdenum	N/R	ND	ND	ND	ND	ND	ND (0.0011 J)	ND	ND
	Radium	5	0.188 U	1.2	0.168 U	0.345 U	0.221 U	-0.0260	0.135 U	0.332
	Selenium	0.05	ND	ND	ND	ND	ND	ND	ND	ND (0.00029 J)
Thallium	0.002	ND	ND (0.0001 J)	ND	ND	ND	ND	ND	ND	

Notes:

1. MCL indicates Environmental Protection Agency (EPA) and Georgia Environmental Protection Division (EPD) maximum contaminant level.
2. (SMCL) indicates a secondary MCL that is established by EPA as a general guideline only (not enforced).
3. Results for substances are reported in milligrams per liter (mg/L). Radium results are reported in picocuries per liter (pCi/L).
4. ND (Not Detected) indicates the substance was not detected above the analytical method detection limit (MDL).
5. ND (value J) indicates the substance was detected at such low levels that the precision of the laboratory instruments could not produce a reliable value. Therefore, the value displayed (value J) is qualified by the laboratory as an estimated number.
6. N/R indicates a substance does not have a MCL or SMCL, but will be further evaluated statistically at the conclusion of all the background sampling events, as required by EPA's CCR rule.
7. TDS indicates total dissolved solids.
8. U indicates the substance was detected below the Minimum Detection Concentration (MDC) and the precision of the laboratory instruments could not produce a reliable value. Therefore, the value followed by U is qualified by the laboratory as estimated.
9. Appendix III = indicator parameters evaluated during Detection Monitoring; Appendix IV = parameters evaluated during Assessment Monitoring.

Table A-4.
ANALYTICAL DATA SUMMARY
Georgia Power - Plant Scherer Ash Pond
Juliette, GA

Substance		MCL/ (SMCL)	WELL ID							
			SGWA-4	SGWA-4	SGWA-4	SGWA-4	SGWA-4	SGWA-4	SGWA-4	SGWA-4
			5/11/2016	6/24/2016	8/17/2016	10/17/2016	12/6/2016	2/14/2017	4/11/2017	6/26/2017
APPENDIX III	Boron	N/R	ND	ND (0.0067 J)	ND	ND	ND	ND	ND	ND
	Calcium	N/R	14.4	14.2	15	16	15	17	17	18
	Chloride	(250)	1.93	1.8	1.4	1.2	1.3	1.3	1.2	1.2
	Fluoride	4	ND (0.108 J)	ND (0.08 J)	ND	ND	ND (0.091 J)	ND (0.1 J)	ND	ND
	Sulfate	(250)	3.75	3.0	1.8	1.4	1.4	1.1	1.00	ND (0.99 J)
	TDS	(500)	91	78	100	58	98	78	110	110
APPENDIX IV	Antimony	0.006	ND	ND (0.0007 J)	ND	ND	ND	ND	ND	ND
	Arsenic	0.01	ND	ND	ND	ND	ND	ND	ND (0.0011 J)	ND (0.00055 J)
	Barium	2	0.0484	0.0471	0.046	0.049	0.047	0.05	0.053	0.058
	Beryllium	0.004	ND	ND	ND	ND	ND	ND	ND	ND
	Cadmium	0.005	ND	ND	ND	ND	ND	ND	ND	ND
	Chromium	0.1	ND (0.00217 J)	ND (0.0015 J)	ND (0.0011 J)	0.0032	0.0028	0.0046	0.005	0.0061
	Cobalt	N/R	ND	ND	ND(0.00041 J)	ND	ND	ND	ND	ND
	Lead	0.015	ND	ND	ND	ND	ND	ND	ND	ND
	Lithium	N/R	ND	ND	ND	ND	ND	ND	ND	ND
	Mercury	0.002	ND	ND	ND	ND	ND (0.00011 J)	ND	ND	ND
	Molybdenum	N/R	ND (0.00278 J)	ND (0.0022 J)	ND (0.0018 J)	ND (0.0014 J)	ND (0.00095 J)	ND	ND (0.0011 J)	ND (0.0016 J)
	Radium	5	0.284 U	0.974	0.202 U	0.114 U	0.251 U	-0.0166 U	-0.168 U	0.184 U
	Selenium	0.05	ND	ND	ND	ND	ND	ND	ND	ND (0.00041 J)
Thallium	0.002	ND	ND	ND	ND	ND	ND	ND	ND	

Notes:

1. MCL indicates Environmental Protection Agency (EPA) and Georgia Environmental Protection Division (EPD) maximum contaminant level.
2. (SMCL) indicates a secondary MCL that is established by EPA as a general guideline only (not enforced).
3. Results for substances are reported in milligrams per liter (mg/L). Radium results are reported in picocuries per liter (pCi/L).
4. ND (Not Detected) indicates the substance was not detected above the analytical method detection limit (MDL).
5. ND (value J) indicates the substance was detected at such low levels that the precision of the laboratory instruments could not produce a reliable value. Therefore, the value displayed (value J) is qualified by the laboratory as an estimated number.
6. N/R indicates a substance does not have an MCL or SMCL, but will be further evaluated statistically at the conclusion of all the background sampling events, as required by EPA's CCR rule.
7. TDS indicates total dissolved solids.
8. U indicates the substance was detected below the Minimum Detection Concentration (MDC) and the precision of the laboratory instruments could not produce a reliable value. Therefore, the value followed by U is qualified by the laboratory as estimated.
9. Appendix III = indicator parameters evaluated during Detection Monitoring; Appendix IV = parameters evaluated during Assessment Monitoring.

Table A-5.
ANALYTICAL DATA SUMMARY
Georgia Power - Plant Scherer Ash Pond
Juliette, GA

Substance		MCL/ (SMCL)	WELL ID							
			SGWA-5	SGWA-5	SGWA-5	SGWA-5	SGWA-5	SGWA-5	SGWA-5	SGWA-5
			5/10/2016	6/23/2016	8/16/2016	10/14/2016	12/6/2016	2/14/2017	4/11/2017	6/26/2017
APPENDIX III	Boron	N/R	ND	ND	ND	ND	ND	ND	ND	ND
	Calcium	N/R	2.64	1.65	1.3	1.4	1.4	1.4	1.4	1.5
	Chloride	(250)	1.98	2.1	1.8	1.8	1.8	1.8	1.7	1.7
	Fluoride	4	ND (0.0188 J)	ND	ND	ND	ND	ND	ND	ND
	Sulfate	(250)	ND (0.4716 J)	ND (0.46 J)	ND	ND	ND	ND	ND	ND
	TDS	(500)	64	58	52	58	72	52	78	80
APPENDIX IV	Antimony	0.006	ND	ND	ND	ND	ND	ND	ND	ND
	Arsenic	0.01	ND	ND	ND	ND	ND	ND	ND	ND (0.00079 J)
	Barium	2	0.0112	0.0101	0.0088	0.01	0.011	0.01	0.01	0.011
	Beryllium	0.004	ND	ND	ND	ND	ND	ND	ND	ND
	Cadmium	0.005	ND	ND	ND	ND	ND	ND	ND (0.0011 J)	ND
	Chromium	0.1	ND	ND	ND	ND (0.0012 J)	ND	ND	ND	ND (0.0021 J)
	Cobalt	N/R	ND	ND	ND	ND	ND	ND	ND	ND
	Lead	0.015	ND	ND	ND	ND	ND	ND	ND	ND
	Lithium	N/R	ND	ND	ND	ND	ND	ND	ND	ND
	Mercury	0.002	ND	ND	ND (0.000072 J)	ND	ND (0.00012 J)	ND	ND	ND
	Molybdenum	N/R	ND	ND	ND	ND	ND	ND	ND	ND
	Radium	5	0.338 U	0.358 U	0.224 U	0.999	0.387 U	0.207 U	0.219 U	0.151 U
	Selenium	0.05	ND	ND	ND	ND	ND	ND	ND	ND
Thallium	0.002	ND	ND	ND	ND	ND	ND	ND	ND	

Notes:

1. MCL indicates Environmental Protection Agency (EPA) and Georgia Environmental Protection Division (EPD) maximum contaminant level.
2. (SMCL) indicates a secondary MCL that is established by EPA as a general guideline only (not enforced).
3. Results for substances are reported in milligrams per liter (mg/L). Radium results are reported in picocuries per liter (pCi/L).
4. ND (Not Detected) indicates the substance was not detected above the analytical method detection limit (MDL).
5. ND (value J) indicates the substance was detected at such low levels that the precision of the laboratory instruments could not produce a reliable value. Therefore, the value displayed (value J) is qualified by the laboratory as an estimated number.
6. N/R indicates a substance does not have an MCL or SMCL, but will be further evaluated statistically at the conclusion of all the background sampling events, as required by EPA's CCR rule.
7. TDS indicates total dissolved solids.
8. U indicates the substance was detected below the Minimum Detection Concentration (MDC) and the precision of the laboratory instruments could not produce a reliable value. Therefore, the value followed by U is qualified by the laboratory as estimated.
9. Appendix III = indicator parameters evaluated during Detection Monitoring; Appendix IV = parameters evaluated during Assessment Monitoring.

Table A-6.
ANALYTICAL DATA SUMMARY
Georgia Power - Plant Scherer Ash Pond
Juliette, GA

Substance		MCL/ (SMCL)	WELL ID							
			SGWC-6	SGWC-6	SGWC-6	SGWC-6	SGWC-6	SGWC-6	SGWC-6	SGWC-6
			5/11/2016	6/27/2016	8/17/2016	10/17/2016	12/6/2016	2/14/2017	4/12/2017	6/27/2017
APPENDIX III	Boron	N/R	ND	ND(0.0051 J)	ND	ND	ND	ND	ND	ND
	Calcium	N/R	8.7	7.48	8	8.6	8.2	7.2	6.7	6.2
	Chloride	(250)	2.44	2.5	2.4	2.3	2.3	1.9	1.6	1.6
	Fluoride	4	ND (0.133 J)	ND (0.21 J)	ND (0.14 J)	ND (0.11 J)	ND (0.14 J)	0.2	ND (0.089 J)	ND (0.085 J)
	Sulfate	(250)	ND (0.866 J)	ND (0.86 J)	ND	ND	ND	1	ND	ND
	TDS	(500)	104	112	86	60	90	54	64	40
APPENDIX IV	Antimony	0.006	ND	ND	ND	ND	ND	ND	ND	ND
	Arsenic	0.01	ND	ND	ND	ND	ND	ND (0.0006 J)	ND (0.00046 J)	ND
	Barium	2	0.0933	0.101	0.094	0.11	0.11	0.056	0.048	0.058
	Beryllium	0.004	ND	ND	ND	ND	ND	ND	ND	ND
	Cadmium	0.005	ND	ND	ND	ND	ND	ND	ND	ND
	Chromium	0.1	ND	ND	ND	ND	ND	ND	ND	ND
	Cobalt	N/R	ND	ND (0.002 J)	ND (0.0018 J)	ND (0.0016 J)	ND (0.0012 J)	ND (0.0022 J)	ND (0.0023 J)	0.0045
	Lead	0.015	ND	ND	ND	ND	ND	ND	ND	ND
	Lithium	N/R	ND	ND	ND	ND	ND	ND	ND	ND
	Mercury	0.002	ND	ND	ND	ND	ND (0.00011 J)	ND	ND	ND
	Molybdenum	N/R	ND	ND (0.0007 J)	ND	ND	ND	ND	ND	ND (0.00099 J)
	Radium	5	0.0394 U	0.624 U	0.572	0.307 U	0.122 U	0.166 U	0.355 U	0.0783
Selenium	0.05	ND	ND	ND	ND	ND	ND	ND (0.00034 J)	ND (0.00057 J)	
Thallium	0.002	ND	ND	ND	ND	ND	ND	ND	ND	

Notes:

1. MCL indicates Environmental Protection Agency (EPA) and Georgia Environmental Protection Division (EPD) maximum contaminant level.
2. (SMCL) indicates a secondary MCL that is established by EPA as a general guideline only (not enforced).
3. Results for substances are reported in milligrams per liter (mg/L). Radium results are reported in picocuries per liter (pCi/L).
4. ND (Not Detected) indicates the substance was not detected above the analytical method detection limit (MDL).
5. ND (value J) indicates the substance was detected at such low levels that the precision of the laboratory instruments could not produce a reliable value. Therefore, the value displayed (value J) is qualified by the laboratory as an estimated number.
6. N/R indicates a substance does not have an MCL or SMCL, but will be further evaluated statistically at the conclusion of all the background sampling events, as required by EPA's CCR rule.
7. TDS indicates total dissolved solids.
8. U indicates the substance was detected below the Minimum Detection Concentration (MDC) and the precision of the laboratory instruments could not produce a reliable value. Therefore, the value followed by U is qualified by the laboratory as estimated.
9. Appendix III = indicator parameters evaluated during Detection Monitoring; Appendix IV = parameters evaluated during Assessment Monitoring.

Table A-7.
ANALYTICAL DATA SUMMARY
Georgia Power - Plant Scherer Ash Pond
Juliette, GA

Substance		MCL/ (SMCL)	WELL ID							
			SGWC-7	SGWC-7	SGWC-7	SGWC-7	SGWC-7	SGWC-7	SGWC-7	SGWC-7
			5/11/2016	6/27/2016	8/17/2016	10/18/2016	12/6/2016	2/14/2017	4/12/2017	6/27/2017
APPENDIX III	Boron	N/R	ND (0.0359 J)	ND (0.0354 J)	ND (0.039 J)	ND (0.039 J)	ND (0.03 J)	ND (0.031 J)	ND (0.039 J)	ND (0.028 J)
	Calcium	N/R	27.2	27.9	23	24	23	24	25	23
	Chloride	(250)	9.65	6.7	6.4	5.9	5.9	5.8	5.6	5.7
	Fluoride	4	ND (0.245 J)	ND(0.23 J)	0.22	0.24	0.26	ND (0.17 J)	0.2	0.23
	Sulfate	(250)	21.6	17	19	17	18	21	18	19
	TDS	(500)	222	275	220	210	250	210	200	180
APPENDIX IV	Antimony	0.006	ND	ND (0.0004 J)	ND	ND	ND	ND	ND	ND
	Arsenic	0.01	ND	ND (0.0009 J)	ND (0.0006 J)	ND	ND	ND (0.00059 J)	ND (0.00058 J)	ND
	Barium	2	0.295	0.353	0.29	0.29	0.31	0.3	0.3	0.36
	Beryllium	0.004	ND	ND	ND	ND	ND	ND	ND	ND
	Cadmium	0.005	ND	ND	ND	ND	ND	ND	ND	ND
	Chromium	0.1	ND	ND	ND	ND	ND	ND	ND	ND
	Cobalt	N/R	0.0116	0.0143	0.012	0.0099	0.011	0.0093	0.0062	0.021
	Lead	0.015	ND	ND	ND (0.00085 J)	ND	ND	ND	ND	ND
	Lithium	N/R	ND	ND (0.0031 J)	ND (0.0046 J)	ND (0.0036 J)	ND (0.0043 J)	ND (0.0043 J)	0.0051	ND (0.0033 J)
	Mercury	0.002	ND	ND	ND	ND	ND (0.00011 J)	ND	ND	ND
	Molybdenum	N/R	ND (0.00343 J)	ND (0.0033 J)	ND(0.002 J)	ND(0.0012 J)	ND (0.0021 J)	ND	ND (0.0033 J)	ND (0.0021 J)
	Radium	5	0.214 U	0.581 U	0.665	0.453	0.368 U	0.328 U	0.206 U	0.598
Selenium	0.05	ND	ND	ND	ND	ND	ND	ND	ND	
Thallium	0.002	ND	ND	ND	ND	ND	ND	ND	ND	

Notes:

- MCL indicates Environmental Protection Agency (EPA) and Georgia Environmental Protection Division (EPD) maximum contaminant level.
- (SMCL) indicates a secondary MCL that is established by EPA as a general guideline only (not enforced).
- Results for substances are reported in milligrams per liter (mg/L). Radium results are reported in picocuries per liter (pCi/L).
- ND (Not Detected) indicates the substance was not detected above the analytical method detection limit (MDL).
- ND (value J) indicates the substance was detected at such low levels that the precision of the laboratory instruments could not produce a reliable value. Therefore, the value displayed (value J) is qualified by the laboratory as an estimated number.
- N/R indicates a substance does not have an MCL or SMCL, but will be further evaluated statistically at the conclusion of all the background sampling events, as required by EPA's CCR rule.
- TDS indicates total dissolved solids.
- U indicates the substance was detected below the Minimum Detection Concentration (MDC) and the precision of the laboratory instruments could not produce a reliable value. Therefore, the value followed by U is qualified by the laboratory as estimated.
- Appendix III = indicator parameters evaluated during Detection Monitoring; Appendix IV = parameters evaluated during Assessment Monitoring.

Table A-8.
ANALYTICAL DATA SUMMARY
Georgia Power - Plant Scherer Ash Pond
Juliette, GA

Substance		MCL/ (SMCL)	WELL ID							
			SGWC-8	SGWC-8	SGWC-8	SGWC-8	SGWC-8	SGWC-8	SGWC-8	SGWC-8
			5/11/2016	6/27/2016	8/17/2016	10/17/2016	12/6/2016	2/14/2017	4/12/2017	6/27/2017
APPENDIX III	Boron	N/R	ND (0.0678 J)	ND (0.0767 J)	0.067	0.059	0.054	0.063	0.068	0.067
	Calcium	N/R	47.6	47	45	47	45	49	50	50
	Chloride	(250)	12.6	13	14	12	12	12	11	12
	Fluoride	4	0.362	0.45	0.54	0.51	0.58	0.39	0.41	0.47
	Sulfate	(250)	61.6	64	63	64	72	73	64	77
	TDS	(500)	330	423	410	370	420	370	370	380
APPENDIX IV	Antimony	0.006	ND	ND	ND	ND	ND	ND	ND	ND
	Arsenic	0.01	ND	ND	ND	ND	ND	ND (0.0005 J)	ND	ND (0.00076 J)
	Barium	2	0.251	0.205	0.16	0.17	0.16	0.18	0.18	0.18
	Beryllium	0.004	ND	ND	ND	ND	ND	ND	ND	ND
	Cadmium	0.005	ND	ND	ND	ND	ND	ND	ND	ND
	Chromium	0.1	ND	ND	ND	ND	ND	ND	ND (0.0011 J)	ND
	Cobalt	N/R	ND (0.00265 J)	ND (0.0012 J)	ND (0.00049 J)	ND	ND	ND	ND	ND
	Lead	0.015	ND	ND	ND	ND	ND	ND	ND	ND
	Lithium	N/R	ND	ND (0.0013 J)	ND	ND	ND	ND	ND	ND
	Mercury	0.002	ND	ND	ND	ND	ND (0.000076 J)	ND	ND	ND
	Molybdenum	N/R	ND	ND (0.0008 J)	ND	ND	ND	ND	ND	ND
	Radium	5	2.05	2.9	2.57	2.08	2.25	1.77	2.72	2.07
Selenium	0.05	ND	ND	ND	ND	ND	ND	ND	ND	
Thallium	0.002	ND	ND	ND	ND	ND	ND	ND	ND	

Notes:

1. MCL indicates Environmental Protection Agency (EPA) and Georgia Environmental Protection Division (EPD) maximum contaminant level.
2. (SMCL) indicates a secondary MCL that is established by EPA as a general guideline only (not enforced).
3. Results for substances are reported in milligrams per liter (mg/L). Radium results are reported in picocuries per liter (pCi/L).
4. ND (Not Detected) indicates the substance was not detected above the analytical method detection limit (MDL).
5. ND (value J) indicates the substance was detected at such low levels that the precision of the laboratory instruments could not produce a reliable value. Therefore, the value displayed (value J) is qualified by the laboratory as an estimated number.
6. N/R indicates a substance does not have an MCL or SMCL, but will be further evaluated statistically at the conclusion of all the background sampling events, as required by EPA's CCR rule.
7. TDS indicates total dissolved solids.
8. U indicates the substance was detected below the Minimum Detection Concentration (MDC) and the precision of the laboratory instruments could not produce a reliable value. Therefore, the value followed by U is qualified by the laboratory as estimated.
9. Appendix III = indicator parameters evaluated during Detection Monitoring; Appendix IV = parameters evaluated during Assessment Monitoring.

Table A-9.
ANALYTICAL DATA SUMMARY
Georgia Power - Plant Scherer Ash Pond
Juliette, GA

Substance	MCL/ (SMCL)	WELL ID								
		SGWC-9	SGWC-9	SGWC-9	SGWC-9	SGWC-9	SGWC-9	SGWC-9	SGWC-9	SGWC-9
		5/11/2016	6/29/2016	8/22/2016	10/18/2016	12/7/2016	2/16/2017	4/13/2017	6/27/2017	
APPENDIX III	Boron	N/R	1.54	1.52	1.6	2.4	1.6	1.6	1.7	1.8
	Calcium	N/R	53.1	52.6	57	53	47	55	56	53
	Chloride	(250)	9.29	9	9.7	9.4	11	9.5	8.7	9.9
	Fluoride	4	ND (0.076 J)	ND (0.13 J)	ND	ND	ND	ND (0.097 J)	ND	ND
	Sulfate	(250)	313	280	300	280	280	300	280	340
	TDS	(500)	527	562	500	490	510	520	590	550
APPENDIX IV	Antimony	0.006	ND	ND	ND	ND	ND	ND	ND	ND
	Arsenic	0.01	ND	ND (0.0009 J)	ND	ND (0.00074 J)	ND (0.00079 J)	ND (0.00056 J)	ND (0.00079 J)	ND (0.0011 J)
	Barium	2	0.0494	0.0535	0.049	0.049	0.048	0.056	0.063	0.067
	Beryllium	0.004	ND	ND	ND	ND	ND	ND	ND	ND
	Cadmium	0.005	ND	ND	ND	ND	ND	ND	ND	ND
	Chromium	0.1	ND	ND	ND	ND	ND	ND	ND	ND
	Cobalt	N/R	0.0156	0.0147	0.017	0.017	0.014	0.014	0.014	0.013
	Lead	0.015	ND	ND	ND	ND	ND	ND	ND	ND
	Lithium	N/R	ND	ND	ND	ND	ND	ND	ND	ND
	Mercury	0.002	ND	ND	ND	ND	ND (0.0001 J)	ND	ND	ND
	Molybdenum	N/R	ND	ND (0.0021 J)	ND (0.00099 J)	ND (0.0014 J)	ND (0.001 J)	ND	ND (0.001 J)	ND
	Radium	5	0.134 U	0.665 U	0.391 U	0.521	0.367 U	0.0760 U	0.239 U	0.268 U
	Selenium	0.05	ND	ND	ND	ND	ND	ND	ND	ND
Thallium	0.002	ND	ND	ND	ND	ND	ND	ND	ND	

Notes:

1. MCL indicates Environmental Protection Agency (EPA) and Georgia Environmental Protection Division (EPD) maximum contaminant level.
2. (SMCL) indicates a secondary MCL that is established by EPA as a general guideline only (not enforced).
3. Results for substances are reported in milligrams per liter (mg/L). Radium results are reported in picocuries per liter (pCi/L).
4. ND (Not Detected) indicates the substance was not detected above the analytical method detection limit (MDL).
5. ND (value J) indicates the substance was detected at such low levels that the precision of the laboratory instruments could not produce a reliable value. Therefore, the value displayed (value J) is qualified by the laboratory as an estimated number.
6. N/R indicates a substance does not have an MCL or SMCL, but will be further evaluated statistically at the conclusion of all the background sampling events, as required by EPA's CCR rule.
7. TDS indicates total dissolved solids.
8. U indicates the substance was detected below the Minimum Detection Concentration (MDC) and the precision of the laboratory instruments could not produce a reliable value. Therefore, the value followed by U is qualified by the laboratory as estimated.
9. Appendix III = indicator parameters evaluated during Detection Monitoring; Appendix IV = parameters evaluated during Assessment Monitoring.

Table A-10.
ANALYTICAL DATA SUMMARY
Georgia Power - Plant Scherer Ash Pond
Juliette, GA

Substance		MCL/ (SMCL)	WELL ID							
			SGWC-10	SGWC-10	SGWC-10	SGWC-10	SGWC-10	SGWC-10	SGWC-10	SGWC-10
			5/11/2016	6/28/2016	8/17/2016	10/17/2016	12/6/2016	2/5/2017	4/12/2017	6/27/2017
APPENDIX III	Boron	N/R	ND (0.0275 J)	ND (0.035 J)	ND (0.028 J)	ND (0.032 J)	ND	ND (0.035 J)	0.052	ND
	Calcium	N/R	4.14	3.13	4.1	4.2	4.3	1.5	2.2	3.1
	Chloride	(250)	9.53	9.1	9.4	8.9	8.9	9	8.5	9.1
	Fluoride	4	ND (0.019 J)	ND	ND	ND	ND	ND	ND	ND
	Sulfate	(250)	7.43	6.3	11	4.4	11	1.3	2.8	8.2
	TDS	(500)	68	41	70	6	40	18	18	50
APPENDIX IV	Antimony	0.006	ND	ND (0.0014 J)	ND	ND	ND	ND	ND	ND
	Arsenic	0.01	ND	ND	ND	ND	ND	ND (0.0005 J)	ND	ND (0.00074 J)
	Barium	2	0.0294	0.0293	0.029	0.027	0.03	0.025	0.028	0.034
	Beryllium	0.004	ND	ND	ND	ND	ND	ND	ND	ND
	Cadmium	0.005	ND	ND	ND	ND	ND	ND	ND	ND
	Chromium	0.1	ND	ND	ND	ND	ND	ND	ND	ND
	Cobalt	N/R	0.0191	0.0192	0.022	0.05	0.04	0.038	0.018	0.014
	Lead	0.015	ND	ND	ND	ND	ND	ND	ND	ND
	Lithium	N/R	ND	ND	ND	ND	ND	ND	ND	ND
	Mercury	0.002	ND	ND	ND	ND	ND (0.00013 J)	ND	ND	ND
	Molybdenum	N/R	ND	ND	ND	ND	ND	ND	ND	ND
	Radium	5	0.260 U	1.57	0.548 U	-0.0725 U	0.496	0.321 U	-0.0397 U	0.47
Selenium	0.05	ND	ND	ND	ND	ND	ND	ND	ND	
Thallium	0.002	ND	ND (0.0001 J)	ND	ND	ND	ND	ND	ND	

Notes:

1. MCL indicates Environmental Protection Agency (EPA) and Georgia Environmental Protection Division (EPD) maximum contaminant level.
2. (SMCL) indicates a secondary MCL that is established by EPA as a general guideline only (not enforced).
3. Results for substances are reported in milligrams per liter (mg/L). Radium results are reported in picocuries per liter (pCi/L).
4. ND (Not Detected) indicates the substance was not detected above the analytical method detection limit (MDL).
5. ND (value J) indicates the substance was detected at such low levels that the precision of the laboratory instruments could not produce a reliable value. Therefore, the value displayed (value J) is qualified by the laboratory as an estimated number.
6. N/R indicates a substance does not have an MCL or SMCL, but will be further evaluated statistically at the conclusion of all the background sampling events, as required by EPA's CCR rule.
7. TDS indicates total dissolved solids.
8. U indicates the substance was detected below the Minimum Detection Concentration (MDC) and the precision of the laboratory instruments could not produce a reliable value. Therefore, the value followed by U is qualified by the laboratory as estimated.
9. Appendix III = indicator parameters evaluated during Detection Monitoring; Appendix IV = parameters evaluated during Assessment Monitoring.

Table A-11.
ANALYTICAL DATA SUMMARY
Georgia Power - Plant Scherer Ash Pond
Juliette, GA

Substance		MCL/ (SMCL)	WELL ID							
			SGWC-11	SGWC-11	SGWC-11	SGWC-11	SGWC-11	SGWC-11	SGWC-11	SGWC-11
			5/11/2016	6/28/2016	8/17/2016	10/17/2016	12/6/2016	2/15/2017	4/12/2017	6/27/2017
APPENDIX III	Boron	N/R	0.242	0.245	0.26	0.25	0.27	0.28	0.29	0.29
	Calcium	N/R	2.91	2.19	1.9	2	1.9	1.9	1.9	1.9
	Chloride	(250)	8.87	8.3	8.6	7.9	7.9	7.2	7.5	7.8
	Fluoride	4	ND (0.033 J)	ND (0.08 J)	ND	ND	ND	ND	ND	ND
	Sulfate	(250)	6.31	3.7	2.4	2.1	1.9	1.2	1	1.2
	TDS	(500)	80	134	42	24	70	34	36	8
APPENDIX IV	Antimony	0.006	ND	ND	ND	ND	ND	ND	ND	ND
	Arsenic	0.01	ND (0.00103 J)	ND (0.0011 J)	ND (0.0011 J)	ND (0.0011 J)	ND (0.00072 J)	ND (0.0011 J)	ND (0.00076 J)	ND (0.0011 J)
	Barium	2	0.038	0.0363	0.033	0.035	0.035	0.036	0.038	0.042
	Beryllium	0.004	ND	ND	ND	ND	ND	ND	ND	ND
	Cadmium	0.005	ND	ND	ND	ND	ND	ND	ND	ND
	Chromium	0.1	ND	ND	ND	ND	ND	ND	ND	ND
	Cobalt	N/R	0.0378	0.0332	0.03	0.032	0.029	0.029	0.028	0.029
	Lead	0.015	ND	ND	ND	ND	ND	ND	ND	ND
	Lithium	N/R	ND	ND (0.0013 J)	ND	ND	ND	ND	ND	ND
	Mercury	0.002	ND	ND	ND	ND	ND (0.0001 J)	ND	ND	ND
	Molybdenum	N/R	ND	ND	ND	ND	ND	ND	ND	ND
	Radium	5	0.182 U	0.858	0.367 U	0.551	0.438	-0.0831 U	0.343 U	0.369
Selenium	0.05	ND	ND	ND	ND	ND	ND	ND	ND	
Thallium	0.002	ND	ND	ND	ND	ND	ND	ND	ND	

Notes:

- MCL indicates Environmental Protection Agency (EPA) and Georgia Environmental Protection Division (EPD) maximum contaminant level.
- (SMCL) indicates a secondary MCL that is established by EPA as a general guideline only (not enforced).
- Results for substances are reported in milligrams per liter (mg/L). Radium results are reported in picocuries per liter (pCi/L).
- ND (Not Detected) indicates the substance was not detected above the analytical method detection limit (MDL).
- ND (value J) indicates the substance was detected at such low levels that the precision of the laboratory instruments could not produce a reliable value. Therefore, the value displayed (value J) is qualified by the laboratory as an estimated number.
- N/R indicates a substance does not have an MCL or SMCL, but will be further evaluated statistically at the conclusion of all the background sampling events, as required by EPA's CCR rule.
- TDS indicates total dissolved solids.
- U indicates the substance was detected below the Minimum Detection Concentration (MDC) and the precision of the laboratory instruments could not produce a reliable value. Therefore, the value followed by U is qualified by the laboratory as estimated.
- Appendix III = indicator parameters evaluated during Detection Monitoring; Appendix IV = parameters evaluated during Assessment Monitoring.

Table A-12.
ANALYTICAL DATA SUMMARY
Georgia Power - Plant Scherer Ash Pond
Juliette, GA

Substance		MCL/ (SMCL)	WELL ID							
			SGWC-12	SGWC-12	SGWC-12	SGWC-12	SGWC-12	SGWC-12	SGWC-12	SGWC-12
			5/11/2016	6/28/2016	8/18/2016	10/17/2016	12/6/2016	2/15/2017	4/12/2017	6/27/2017
APPENDIX III	Boron	N/R	ND	ND (0.0054 J)	ND	ND	ND	ND	ND	ND
	Calcium	N/R	23.1	21	20	21	21	23	23	22
	Chloride	(250)	9.04	8.8	9.3	8.3	8.9	8.7	8.6	9.3
	Fluoride	4	ND (0.11 J)	ND (0.18 J)	ND (0.12 J)	ND (0.082 J)	ND (0.11 J)	ND (0.13 J)	ND (0.088 J)	ND (0.1 J)
	Sulfate	(250)	30.1	25	24	23	28	33	30	33
	TDS	(500)	195	200	200	160	220	200	180	200
APPENDIX IV	Antimony	0.006	ND	ND	ND	ND	ND	ND	ND	ND
	Arsenic	0.01	ND	ND (0.001 J)	ND (0.00091 J)	ND	ND	ND (0.00076 J)	ND (0.00046 J)	ND (0.0011 J)
	Barium	2	0.0324	0.0321	0.03	0.032	0.032	0.036	0.037	0.042
	Beryllium	0.004	ND	ND	ND	ND	ND	ND	ND	ND
	Cadmium	0.005	ND	ND	ND	ND	ND	ND	ND	ND
	Chromium	0.1	ND	ND	ND	ND (0.0023 J)	ND	ND	ND	ND
	Cobalt	N/R	ND (0.00648 J)	ND (0.0051 J)	0.0035	0.003	0.0036	0.004	0.0039	0.0042
	Lead	0.015	ND	ND	ND	ND	ND	ND	ND	ND
	Lithium	N/R	ND	ND	ND	ND	ND	ND	ND	ND
	Mercury	0.002	ND	ND	ND	ND	ND (0.000093 J)	ND	ND	ND
	Molybdenum	N/R	ND	ND (0.0012 J)	ND (0.0011 J)	ND	ND	ND	ND	ND
	Radium	5	0.433	0.435 U	0.214 U	0.316 U	0.0575 U	-0.0321 U	0.00949	0.183 U
	Selenium	0.05	ND	ND	ND (0.00031 J)	ND	ND	ND	ND	ND
Thallium	0.002	ND	ND	ND	ND	ND	ND	ND	ND	

Notes:

1. MCL indicates Environmental Protection Agency (EPA) and Georgia Environmental Protection Division (EPD) maximum contaminant level.
2. (SMCL) indicates a secondary MCL that is established by EPA as a general guideline only (not enforced).
3. Results for substances are reported in milligrams per liter (mg/L). Radium results are reported in picocuries per liter (pCi/L).
4. ND (Not Detected) indicates the substance was not detected above the analytical method detection limit (MDL).
5. ND (value J) indicates the substance was detected at such low levels that the precision of the laboratory instruments could not produce a reliable value. Therefore, the value displayed (value J) is qualified by the laboratory as an estimated number.
6. N/R indicates a substance does not have an MCL or SMCL, but will be further evaluated statistically at the conclusion of all the background sampling events, as required by EPA's CCR rule.
7. TDS indicates total dissolved solids.
8. U indicates the substance was detected below the Minimum Detection Concentration (MDC) and the precision of the laboratory instruments could not produce a reliable value. Therefore, the value followed by U is qualified by the laboratory as estimated.
9. Appendix III = indicator parameters evaluated during Detection Monitoring; Appendix IV = parameters evaluated during Assessment Monitoring.

Table A-13.
ANALYTICAL DATA SUMMARY
Georgia Power - Plant Scherer Ash Pond
Juliette, GA

Substance	MCL/ (SMCL)	WELL ID								
		SGWC-13	SGWC-13	SGWC-13	SGWC-13	SGWC-13	SGWC-13	SGWC-13	SGWC-13	SGWC-13
		5/12/2016	6/28/2016	8/18/2016	10/17/2016	12/6/2016	2/15/2017	4/12/2017	6/27/2017	
APPENDIX III	Boron	N/R	0.599	0.52	0.51	0.58	0.5	0.5	0.47	0.51
	Calcium	N/R	16.6	14.4	15	15	14	17	16	15
	Chloride	(250)	6.29	5.4	5.8	5.4	5.6	5.4	5.6	5.9
	Fluoride	4	ND (0.042 J)	ND (0.15 J)	ND	ND	ND	ND	ND	ND
	Sulfate	(250)	89.7	76	78	73	76	73	70	78
	TDS	(500)	190	198	180	140	110	160	140	170
APPENDIX IV	Antimony	0.006	ND	ND (0.0004 J)	ND	ND	ND	ND	ND	ND
	Arsenic	0.01	ND	ND	ND	ND	ND	ND	ND (0.00047 J)	ND (0.00088 J)
	Barium	2	0.0198	0.0208	0.022	0.024	0.025	0.026	0.029	0.031
	Beryllium	0.004	ND	ND	ND	ND	ND	ND	ND	ND
	Cadmium	0.005	ND	ND	ND	ND	ND	ND	ND	ND
	Chromium	0.1	ND	ND	ND	ND	ND	ND	ND	ND
	Cobalt	N/R	0.0145	0.011	0.0099	0.01	0.0079	0.0073	0.0078	0.0068
	Lead	0.015	ND	ND	ND	ND	ND	ND	ND	ND
	Lithium	N/R	ND	ND	ND	ND	ND	ND	ND	ND
	Mercury	0.002	ND	ND	ND	ND	ND (0.00011 J)	ND	ND	ND
	Molybdenum	N/R	ND	ND	ND	ND	ND	ND	ND	ND
	Radium	5	0.0531 U	0.483 U	0.286 U	0.472	0.903	-0.223 U	0.210 U	0.0574 U
	Selenium	0.05	ND	ND	ND	ND (0.0003 J)	ND	ND	ND	ND
Thallium	0.002	ND	ND	ND	ND	ND	ND	ND	ND	

Notes:

1. MCL indicates Environmental Protection Agency (EPA) and Georgia Environmental Protection Division (EPD) maximum contaminant level.
2. (SMCL) indicates a secondary MCL that is established by EPA as a general guideline only (not enforced).
3. Results for substances are reported in milligrams per liter (mg/L). Radium results are reported in picocuries per liter (pCi/L).
4. ND (Not Detected) indicates the substance was not detected above the analytical method detection limit (MDL).
5. ND (value J) indicates the substance was detected at such low levels that the precision of the laboratory instruments could not produce a reliable value. Therefore, the value displayed (value J) is qualified by the laboratory as an estimated number.
6. N/R indicates a substance does not have a MCL or SMCL, but will be further evaluated statistically at the conclusion of all the background sampling events, as required by EPA's CCR rule.
7. TDS indicates total dissolved solids.
8. U indicates the substance was detected below the Minimum Detection Concentration (MDC) and the precision of the laboratory instruments could not produce a reliable value. Therefore, the value followed by U is qualified by the laboratory as estimated.
9. Appendix III = indicator parameters evaluated during Detection Monitoring; Appendix IV = parameters evaluated during Assessment Monitoring.

Table A-14.
ANALYTICAL DATA SUMMARY
Georgia Power - Plant Scherer Ash Pond
Juliette, GA

Substance	MCL/ (SMCL)	WELL ID								
		SGWC-14	SGWC-14	SGWC-14	SGWC-14	SGWC-14	SGWC-14	SGWC-14	SGWC-14	SGWC-14
		5/12/2016	6/28/2016	8/18/2016	10/17/2016	12/7/2016	2/15/2017	4/12/2017	6/27/2017	
APPENDIX III	Boron	N/R	1.38	1.29	1.3	1.6	1.5	1.5	1.4	1.6
	Calcium	N/R	37.7	35.8	37	37	38	45	39	38
	Chloride	(250)	11.1	10	11	11	11	11	10	11
	Fluoride	4	ND (0.031 J)	ND (0.03 J)	ND	ND	ND	ND	ND	ND
	Sulfate	(250)	194	200	180	190	200	190	170	200
	TDS	(500)	309	333	320	320	340	340	300	320
APPENDIX IV	Antimony	0.006	ND	ND	ND	ND	ND	ND	ND	ND
	Arsenic	0.01	ND	ND	ND	ND	ND	ND	ND (0.00057 J)	ND (0.00058 J)
	Barium	2	0.067	0.0668	0.06	0.06	0.063	0.061	0.062	0.06
	Beryllium	0.004	ND	ND	ND	ND	ND	ND	ND	ND
	Cadmium	0.005	ND (0.000136 J)	ND	ND	ND	ND	ND	ND	ND
	Chromium	0.1	ND	ND (0.0008 J)	ND	ND (0.0012 J)	ND (0.0012 J)	ND	ND	ND
	Cobalt	N/R	ND (0.00605 J)	0.0115	0.011	0.017	0.0043	0.0059	0.017	0.013
	Lead	0.015	ND	ND	ND	ND	ND	ND	ND	ND
	Lithium	N/R	ND	ND	ND	ND	ND	ND	ND	ND
	Mercury	0.002	ND	ND	ND	ND (0.000085)	ND (0.00012 J)	ND	ND	ND
	Molybdenum	N/R	ND	ND	ND	ND	ND	ND (0.003 J)	ND	ND
	Radium	5	0.106 U	0.735 U	0.212 U	-0.187 U	0.701	0.155 U	0.233 U	0.302
Selenium	0.05	ND	ND	ND	ND	ND	ND (0.00066 J)	ND	ND	
Thallium	0.002	ND	ND	ND	ND	ND	ND	ND	ND	

Notes:

1. MCL indicates Environmental Protection Agency (EPA) and Georgia Environmental Protection Division (EPD) maximum contaminant level.
2. (SMCL) indicates a secondary MCL that is established by EPA as a general guideline only (not enforced).
3. Results for substances are reported in milligrams per liter (mg/L). Radium results are reported in picocuries per liter (pCi/L).
4. ND (Not Detected) indicates the substance was not detected above the analytical method detection limit (MDL).
5. ND (value J) indicates the substance was detected at such low levels that the precision of the laboratory instruments could not produce a reliable value. Therefore, the value displayed (value J) is qualified by the laboratory as an estimated number.
6. N/R indicates a substance does not have an MCL or SMCL, but will be further evaluated statistically at the conclusion of all the background sampling events, as required by EPA's CCR rule.
7. TDS indicates total dissolved solids.
8. U indicates the substance was detected below the Minimum Detection Concentration (MDC) and the precision of the laboratory instruments could not produce a reliable value. Therefore, the value followed by U is qualified by the laboratory as estimated.
9. Appendix III = indicator parameters evaluated during Detection Monitoring; Appendix IV = parameters evaluated during Assessment Monitoring.

Table A-15.
ANALYTICAL DATA SUMMARY
Georgia Power - Plant Scherer Ash Pond
Juliette, GA

Substance	MCL/ (SMCL)	WELL ID								
		SGWC-15	SGWC-15	SGWC-15	SGWC-15	SGWC-15	SGWC-15	SGWC-15	SGWC-15	SGWC-15
		5/12/2016	6/28/2016	8/18/2016	10/18/2016	12/7/2016	2/15/2017	4/12/2017	6/27/2017	
APPENDIX III	Boron	N/R	1.57	1.36	1.5	1.9	1.5	1.5	1.7	1.7
	Calcium	N/R	14.5	14.7	15	16	15	17	14	16
	Chloride	(250)	9.47	9.8	10	9.4	9.8	9.8	9.2	9.5
	Fluoride	4	ND (0.1071 J)	ND (0.26 J)	ND (0.14 J)	ND (0.12 J)	ND (0.13 J)	ND (0.12 J)	ND (0.11 J)	ND (0.13 J)
	Sulfate	(250)	194	200	190	190	200	190	170	200
	TDS	(500)	298	337	310	320	270	310	280	290
APPENDIX IV	Antimony	0.006	ND	ND	ND	ND	ND	ND	ND	ND
	Arsenic	0.01	ND	ND (0.0026 J)	0.0015	0.0019	ND (0.00079 J)	ND (0.00073 J)	ND (0.0009 J)	ND (0.0011 J)
	Barium	2	0.041	0.0435	0.043	0.041	0.042	0.038	0.038	0.041
	Beryllium	0.004	ND	ND (0.0003 J)	ND (0.00037 J)	ND	ND	ND (0.00037 J)	ND (0.00035 J)	ND (0.0004 J)
	Cadmium	0.005	ND (0.000265 J)	ND (0.0003 J)	ND	ND	ND	ND (0.00044 J)	ND	ND
	Chromium	0.1	0.0335	0.0339	0.034	0.033	0.032	0.03	0.035	0.035
	Cobalt	N/R	0.267	0.255	0.26	0.28	0.26	0.24	0.28	0.29
	Lead	0.015	ND	ND	ND	ND	ND	ND	ND	ND
	Lithium	N/R	ND	ND (0.0024 J)	ND	ND	ND	ND	ND	ND
	Mercury	0.002	ND	ND	ND (0.00011 J)	ND (0.00012 J)	ND (0.00017 J)	ND (0.00011 J)	ND (0.000072 J)	ND (0.000084 J)
	Molybdenum	N/R	ND	ND	ND	ND	ND	ND	ND	ND
	Radium	5	0.344 U	0.256 U	0.503 U	0.171 U	0.375 U	0.0801 U	0.197 U	0.0274 U
	Selenium	0.05	ND (0.00965 J)	0.0101	0.0014	0.0013	ND (0.0007 J)	ND (0.00075 J)	ND	0.0013
Thallium	0.002	ND	ND (0.00009 J)	ND	ND	ND	ND (0.000085 J)	ND (0.000095 J)	ND (0.0001 J)	

Notes:

1. MCL indicates Environmental Protection Agency (EPA) and Georgia Environmental Protection Division (EPD) maximum contaminant level.
2. (SMCL) indicates a secondary MCL that is established by EPA as a general guideline only (not enforced).
3. Results for substances are reported in milligrams per liter (mg/L). Radium results are reported in picocuries per liter (pCi/L).
4. ND (Not Detected) indicates the substance was not detected above the analytical method detection limit (MDL).
5. ND (value J) indicates the substance was detected at such low levels that the precision of the laboratory instruments could not produce a reliable value. Therefore, the value displayed (value J) is qualified by the laboratory as an estimated number.
6. N/R indicates a substance does not have an MCL or SMCL, but will be further evaluated statistically at the conclusion of all the background sampling events, as required by EPA's CCR rule.
7. TDS indicates total dissolved solids.
8. U indicates the substance was detected below the Minimum Detection Concentration (MDC) and the precision of the laboratory instruments could not produce a reliable value. Therefore, the value followed by U is qualified by the laboratory as estimated.
9. Appendix III = indicator parameters evaluated during Detection Monitoring; Appendix IV = parameters evaluated during Assessment Monitoring.

Table A-16.
ANALYTICAL DATA SUMMARY
Georgia Power - Plant Scherer Ash Pond
Juliette, GA

Substance		MCL/ (SMCL)	WELL ID							
			SGWC-16	SGWC-16	SGWC-16	SGWC-16	SGWC-16	SGWC-16	SGWC-16	SGWC-16
			5/12/2016	6/28/2016	8/18/2016	10/18/2016	12/7/2016	2/16/2017	4/13/2017	6/27/2017
APPENDIX III	Boron	N/R	0.562	0.546	0.54	0.55	0.56	0.58	0.56	0.56
	Calcium	N/R	0.75	0.768	0.7	0.75	0.73	0.81	0.88	0.76
	Chloride	(250)	8.56	7.8	8.5	8	8	7.7	7.5	8
	Fluoride	4	ND (0.011 J)	ND (0.09 J)	ND	ND	ND	ND	ND	ND
	Sulfate	(250)	9.9	11	14	15	17	17	15	19
	TDS	(500)	46	60	48	60	64	40	76	50
APPENDIX IV	Antimony	0.006	ND	ND	ND	ND	ND	ND	ND	ND
	Arsenic	0.01	ND	ND	ND	ND	ND	ND	ND	ND (0.00055 J)
	Barium	2	0.0163	0.0165	0.017	0.017	0.017	0.017	0.019	0.02
	Beryllium	0.004	ND	ND	ND	ND	ND	ND	ND	ND
	Cadmium	0.005	ND	ND	ND	ND	ND	ND	ND	ND
	Chromium	0.1	ND (0.00943 J)	ND (0.0093 J)	0.0085	0.0088	0.0079	0.0097	0.0098	0.0096
	Cobalt	N/R	ND (0.00303 J)	ND (0.0029 J)	0.0029	0.0034	0.003	0.0033	0.0034	0.0037
	Lead	0.015	ND	ND	ND	ND	ND	ND	ND	ND
	Lithium	N/R	ND	ND	ND	ND	ND	ND	ND	ND
	Mercury	0.002	ND	ND	ND	ND	ND (0.000076 J)	ND	ND	ND
	Molybdenum	N/R	ND	ND	ND	ND	ND	ND	ND	ND
	Radium	5	0.0196 U	0.418 U	0.199 U	0.0404 U	0.426	0.163 U	0.0522 U	0.222 U
Selenium	0.05	ND	ND	ND (0.00053 J)	ND	ND	ND	ND	ND (0.001 J)	
Thallium	0.002	ND	ND	ND	ND	ND	ND	ND	ND	

Notes:

- MCL indicates Environmental Protection Agency (EPA) and Georgia Environmental Protection Division (EPD) maximum contaminant level.
- (SMCL) indicates a secondary MCL that is established by EPA as a general guideline only (not enforced).
- Results for substances are reported in milligrams per liter (mg/L). Radium results are reported in picocuries per liter (pCi/L).
- ND (Not Detected) indicates the substance was not detected above the analytical method detection limit (MDL).
- ND (value J) indicates the substance was detected at such low levels that the precision of the laboratory instruments could not produce a reliable value. Therefore, the value displayed (value J) is qualified by the laboratory as an estimated number.
- N/R indicates a substance does not have an MCL or SMCL, but will be further evaluated statistically at the conclusion of all the background sampling events, as required by EPA's CCR rule.
- TDS indicates total dissolved solids.
- U indicates the substance was detected below the Minimum Detection Concentration (MDC) and the precision of the laboratory instruments could not produce a reliable value. Therefore, the value followed by U is qualified by the laboratory as estimated.
- Appendix III = indicator parameters evaluated during Detection Monitoring; Appendix IV = parameters evaluated during Assessment Monitoring.

Table A-17.
ANALYTICAL DATA SUMMARY
Georgia Power - Plant Scherer Ash Pond
Juliette, GA

Substance		MCL/ (SMCL)	WELL ID							
			SGWC-17	SGWC-17	SGWC-17	SGWC-17	SGWC-17	SGWC-17	SGWC-17	SGWC-17
			5/12/2016	6/29/2016	8/18/2016	10/19/2016	12/7/2016	2/15/2017	4/13/2017	6/28/2017
APPENDIX III	Boron	N/R	0.195	0.198	0.24	0.37	0.4	0.38	0.34	0.33
	Calcium	N/R	34.8	33.1	35	39	39	44	45	42
	Chloride	(250)	9.11	8.3	8.8	8.3	8.4	8.1	7.9	8.3
	Fluoride	4	ND (0.066 J)	ND (0.17 J)	ND	ND	ND	ND (0.089 J)	ND	ND
	Sulfate	(250)	125	120	130	140	160	160	140	160
	TDS	(500)	261	323	310	320	370	350	390	350
APPENDIX IV	Antimony	0.006	ND	ND	ND	ND	ND	ND	ND	ND
	Arsenic	0.01	ND	ND	ND	ND (0.00099 J)	ND	ND (0.00059 J)	ND (0.00066 J)	ND (0.00075 J)
	Barium	2	0.0157	0.0161	0.016	0.019	0.018	0.02	0.019	0.019
	Beryllium	0.004	ND	ND	ND	ND	ND	ND	ND	ND
	Cadmium	0.005	ND	ND	ND	ND	ND	ND	ND	ND
	Chromium	0.1	ND (0.0077 J)	ND (0.0036 J)	0.0027	ND (0.0019 J)	0.0027	0.0044	0.0047	0.0029
	Cobalt	N/R	ND	ND (0.0007 J)	ND (0.00078 J)	ND (0.00094 J)	ND (0.00056 J)	ND (0.00069 J)	ND (0.00049 J)	ND (0.00041 J)
	Lead	0.015	ND	ND	ND	ND	ND	ND	ND	ND
	Lithium	N/R	ND	ND	ND	ND	ND	ND	ND	ND
	Mercury	0.002	ND	ND	ND	ND	ND (0.00011 J)	ND	ND	ND
	Molybdenum	N/R	ND	ND	ND	ND	ND	ND	ND	ND
	Radium	5	0.134 U	0.391 U	0.498 U	0.639	0.239 U	0.175 U	-0.00846	0.186 U
Selenium	0.05	ND	ND	ND	ND	ND	ND	ND	ND (0.00024 J)	
Thallium	0.002	ND	ND	ND	ND	ND	ND	ND	ND	

Notes:

1. MCL indicates Environmental Protection Agency (EPA) and Georgia Environmental Protection Division (EPD) maximum contaminant level.
2. (SMCL) indicates a secondary MCL that is established by EPA as a general guideline only (not enforced).
3. Results for substances are reported in milligrams per liter (mg/L). Radium results are reported in picocuries per liter (pCi/L).
4. ND (Not Detected) indicates the substance was not detected above the analytical method detection limit (MDL).
5. ND (value J) indicates the substance was detected at such low levels that the precision of the laboratory instruments could not produce a reliable value. Therefore, the value displayed (value J) is qualified by the laboratory as an estimated number.
6. N/R indicates a substance does not have an MCL or SMCL, but will be further evaluated statistically at the conclusion of all the background sampling events, as required by EPA's CCR rule.
7. TDS indicates total dissolved solids.
8. U indicates the substance was detected below the Minimum Detection Concentration (MDC) and the precision of the laboratory instruments could not produce a reliable value. Therefore, the value followed by U is qualified by the laboratory as estimated.
9. Appendix III = indicator parameters evaluated during Detection Monitoring; Appendix IV = parameters evaluated during Assessment Monitoring.

Table A-18.
ANALYTICAL DATA SUMMARY
Georgia Power - Plant Scherer Ash Pond
Juliette, GA

Substance	MCL/ (SMCL)	WELL ID								
		SGWC-18	SGWC-18	SGWC-18	SGWC-18	SGWC-18	SGWC-18	SGWC-18	SGWC-18	SGWC-18
		5/13/2016	6/30/2016	8/22/2016	10/19/2016	12/7/2016	2/16/2017	4/13/2017	6/28/2017	
APPENDIX III	Boron	N/R	3.71	3.8	3.3	4.5	4.8	3.9	3.8	3.6
	Calcium	N/R	56.9	46.4	48	51	50	51	35	36
	Chloride	(250)	4.87	4.7	5	5.1	5.6	7.4	8.9	10
	Fluoride	4	ND (0.0343 J)	ND (0.18 J)	ND	ND	ND	ND	ND	ND
	Sulfate	(250)	484	490	500	520	510	450	380	390
	TDS	(500)	728	742	670	700	720	600	640	540
APPENDIX IV	Antimony	0.006	ND	ND (0.0012 J)	ND	ND	ND	ND	ND	ND
	Arsenic	0.01	ND (0.00161 J)	ND (0.004 J)	ND (0.0012 J)	0.0019	ND (0.0012 J)	ND (0.00086 J)	ND (0.00058 J)	ND (0.0011 J)
	Barium	2	0.0138	0.0145	0.014	0.016	0.015	0.013	0.012	0.012
	Beryllium	0.004	ND	ND (0.0003 J)	ND	ND	ND	ND	ND	ND
	Cadmium	0.005	ND (0.00016 J)	ND (0.0002 J)	ND	ND	ND	ND	ND	ND
	Chromium	0.1	ND (0.00771 J)	ND (0.007 J)	0.007	0.0064	0.0063	0.007	0.0061	0.0059
	Cobalt	N/R	0.116	0.112	0.13	0.14	0.11	0.11	0.094	0.085
	Lead	0.015	ND	ND	ND	ND	ND	ND	ND	ND
	Lithium	N/R	ND	ND (0.0032 J)	ND	ND(0.0042 J)	ND	ND (0.0034 J)	ND	ND
	Mercury	0.002	ND	ND	ND (0.00014 J)	ND	ND (0.00014 J)	ND (0.000084 J)	ND	ND
	Molybdenum	N/R	ND	ND	ND	ND	ND	ND	ND	ND
	Radium	5	0.103 U	0.593 U	0.170 U	0.433	0.435 U	0.101 U	-0.00140 U	0.512
	Selenium	0.05	0.023	0.0263	0.0066	0.0057	0.006	0.0055	0.0049	0.0047
Thallium	0.002	ND	ND (0.0002 J)	ND (0.00015 J)	ND (0.00012 J)	ND (0.000095 J)	ND (0.00013 J)	ND (0.00012 J)	ND (0.00013 J)	

Notes:

1. MCL indicates Environmental Protection Agency (EPA) and Georgia Environmental Protection Division (EPD) maximum contaminant level.
2. (SMCL) indicates a secondary MCL that is established by EPA as a general guideline only (not enforced).
3. Results for substances are reported in milligrams per liter (mg/L). Radium results are reported in picocuries per liter (pCi/L).
4. ND (Not Detected) indicates the substance was not detected above the analytical method detection limit (MDL).
5. ND (value J) indicates the substance was detected at such low levels that the precision of the laboratory instruments could not produce a reliable value. Therefore, the value displayed (value J) is qualified by the laboratory as an estimated number.
6. N/R indicates a substance does not have an MCL or SMCL, but will be further evaluated statistically at the conclusion of all the background sampling events, as required by EPA's CCR rule.
7. TDS indicates total dissolved solids.
8. U indicates the substance was detected below the Minimum Detection Concentration (MDC) and the precision of the laboratory instruments could not produce a reliable value. Therefore, the value followed by U is qualified by the laboratory as estimated.
9. Appendix III = indicator parameters evaluated during Detection Monitoring; Appendix IV = parameters evaluated during Assessment Monitoring.

Table A-19.
ANALYTICAL DATA SUMMARY
Georgia Power - Plant Scherer Ash Pond
Juliette, GA

Substance		MCL/ (SMCL)	WELL ID							
			SGWC-19	SGWC-19	SGWC-19	SGWC-19	SGWC-19	SGWC-19	SGWC-19	SGWC-19
			5/13/2016	6/29/2016	8/22/2016	10/18/2016	12/8/2016	2/16/2017	4/13/2017	6/28/2017
APPENDIX III	Boron	N/R	1.87	1.67	1.7	2.1	1.7	2.3	1.9	1.9
	Calcium	N/R	35.3	34.6	38	36	36	41	39	36
	Chloride	(250)	8.16	7.6	8.2	7.7	7.8	7.4	7.5	7.9
	Fluoride	4	ND (0.0126 J)	ND (0.18 J)	ND	ND	ND	ND	ND	ND
	Sulfate	(250)	212	220	220	210	220	210	190	220
	TDS	(500)	366	370	350	340	350	340	350	340
APPENDIX IV	Antimony	0.006	ND	ND	ND	ND	ND	ND	ND	ND
	Arsenic	0.01	ND	ND	ND	ND	ND	ND	ND	ND (0.00068 J)
	Barium	2	0.0507	0.0485	0.044	0.042	0.045	0.04	0.037	0.04
	Beryllium	0.004	ND	ND (0.0002 J)	ND	ND	ND	ND	ND	ND
	Cadmium	0.005	ND	ND	ND	ND	ND	ND (0.00036 J)	ND	ND
	Chromium	0.1	0.0151	0.0141	0.015	0.013	0.013	0.015	0.016	0.016
	Cobalt	N/R	ND	ND (0.0006 J)	ND (0.00066 J)	ND (0.00095 J)	ND (0.00078 J)	ND (0.00049 J)	ND	ND
	Lead	0.015	ND	ND	ND	ND	ND	ND	ND	ND
	Lithium	N/R	ND	ND	ND	ND	ND	ND	ND	ND
	Mercury	0.002	ND	ND	ND	ND	ND	ND	ND	ND
	Molybdenum	N/R	ND	ND	ND	ND	ND	ND	ND	ND
	Radium	5	-0.115 U	0.396 U	-0.102 U	0.352 U	0.431 U	0.146 U	0.127 U	0.110 U
Selenium	0.05	ND	ND	ND	ND	ND	ND	ND	ND (0.00096 J)	
Thallium	0.002	ND	ND	ND	ND	ND	ND	ND	ND	

Notes:

1. MCL indicates Environmental Protection Agency (EPA) and Georgia Environmental Protection Division (EPD) maximum contaminant level.
2. (SMCL) indicates a secondary MCL that is established by EPA as a general guideline only (not enforced).
3. Results for substances are reported in milligrams per liter (mg/L). Radium results are reported in picocuries per liter (pCi/L).
4. ND (Not Detected) indicates the substance was not detected above the analytical method detection limit (MDL).
5. ND (value J) indicates the substance was detected at such low levels that the precision of the laboratory instruments could not produce a reliable value. Therefore, the value displayed (value J) is qualified by the laboratory as an estimated number.
6. N/R indicates a substance does not have an MCL or SMCL, but will be further evaluated statistically at the conclusion of all the background sampling events, as required by EPA's CCR rule.
7. TDS indicates total dissolved solids.
8. U indicates the substance was detected below the Minimum Detection Concentration (MDC) and the precision of the laboratory instruments could not produce a reliable value. Therefore, the value followed by U is qualified by the laboratory as estimated.
9. Appendix III = indicator parameters evaluated during Detection Monitoring; Appendix IV = parameters evaluated during Assessment Monitoring.

Table A-20.
ANALYTICAL DATA SUMMARY
Georgia Power - Plant Scherer Ash Pond
Juliette, GA

Substance		MCL/ (SMCL)	WELL ID							
			SGWC-20	SGWC-20	SGWC-20	SGWC-20	SGWC-20	SGWC-20	SGWC-20	SGWC-20
			5/12/2016	6/29/2016	8/22/2016	10/18/2016	12/8/2016	2/16/2017	4/13/2017	6/28/2017
APPENDIX III	Boron	N/R	1.99	1.88	2	2.5	1.9	2.3	2	2.3
	Calcium	N/R	13.2	15.8	15	14	11	14	17	15
	Chloride	(250)	10.8	11	11	10	9.7	9.8	10	12
	Fluoride	4	ND (0.259 J)	0.45	0.33	0.26	0.28	0.28	0.2	0.22
	Sulfate	(250)	255	270	270	240	240	230	220	240
	TDS	(500)	386	436	290	200	370	350	380	320
APPENDIX IV	Antimony	0.006	ND	ND	ND	ND	ND	ND	ND	ND
	Arsenic	0.01	ND	ND (0.0018 J)	ND (0.001 J)	ND (0.00085 J)	ND	ND	ND	ND (0.00094 J)
	Barium	2	0.0436	0.0466	0.038	0.039	0.038	0.034	0.028	0.03
	Beryllium	0.004	ND (0.000742 J)	ND (0.0007 J)	ND (0.00074 J)	ND (0.00075 J)	ND (0.00093 J)	ND (0.00091 J)	ND (0.00065 J)	ND (0.00073 J)
	Cadmium	0.005	ND (0.000108 J)	ND (0.0001 J)	ND	ND	ND	ND	ND	ND
	Chromium	0.1	ND	ND (0.0009 J)	ND	ND	ND	ND	ND	ND
	Cobalt	N/R	0.261	0.23	0.25	0.26	0.26	0.23	0.19	0.19
	Lead	0.015	ND	ND (0.0005 J)	ND	ND	ND	ND (0.00035 J)	ND	ND (0.00041 J)
	Lithium	N/R	ND	ND (0.0043 J)	0.0051	ND (0.0038 J)	ND (0.0043 J)	ND (0.0047 J)	ND(0.004 J)	ND (0.0032 J)
	Mercury	0.002	ND	ND	N D(0.000073 J)	ND	ND	ND	ND	ND
	Molybdenum	N/R	ND	ND	ND	ND	ND	ND	ND	ND
	Radium	5	0.556	0.162 U	0.433 U	0.741	1.06	0.382 U	0.189 U	0.84
	Selenium	0.05	ND (0.00396 J)	ND (0.0053 J)	ND (0.0012 J)	ND	ND	ND	ND	ND (0.00064 J)
Thallium	0.002	ND	ND (0.0002 J)	ND (0.00018 J)	ND (0.00016 J)	ND (0.0001 J)	ND (0.00014 J)	ND (0.00021 J)	ND (0.00018 J)	

Notes:

1. MCL indicates Environmental Protection Agency (EPA) and Georgia Environmental Protection Division (EPD) maximum contaminant level.
2. (SMCL) indicates a secondary MCL that is established by EPA as a general guideline only (not enforced).
3. Results for substances are reported in milligrams per liter (mg/L). Radium results are reported in picocuries per liter (pCi/L).
4. ND (Not Detected) indicates the substance was not detected above the analytical method detection limit (MDL).
5. ND (value J) indicates the substance was detected at such low levels that the precision of the laboratory instruments could not produce a reliable value. Therefore, the value displayed (value J) is qualified by the laboratory as an estimated number.
6. N/R indicates a substance does not have an MCL or SMCL, but will be further evaluated statistically at the conclusion of all the background sampling events, as required by EPA's CCR rule.
7. TDS indicates total dissolved solids.
8. U indicates the substance was detected below the Minimum Detection Concentration (MDC) and the precision of the laboratory instruments could not produce a reliable value. Therefore, the value followed by U is qualified by the laboratory as estimated.
9. Appendix III = indicator parameters evaluated during Detection Monitoring; Appendix IV = parameters evaluated during Assessment Monitoring.

Table A-21.
ANALYTICAL DATA SUMMARY
Georgia Power - Plant Scherer Ash Pond
Juliette, GA

Substance	MCL/ (SMCL)	WELL ID								
		SGWC-21	SGWC-21	SGWC-21	SGWC-21	SGWC-21	SGWC-21	SGWC-21	SGWC-21	SGWC-21
		5/12/2016	6/29/2016	8/22/2016	10/18/2016	12/7/2016	2/16/2017	4/13/2017	6/28/2017	
APPENDIX III	Boron	N/R	1.4	1.25	1.3	1.7	1.3	1.4	1.4	1.4
	Calcium	N/R	28.7	27.9	30	30	29	31	32	29
	Chloride	(250)	7.93	7.7	7.9	7.1	7.7	7.4	7.4	8.1
	Fluoride	4	ND (0.079 J)	ND (0.15 J)	ND (0.083 J)	ND	ND	ND (0.12 J)	ND	ND (0.1 J)
	Sulfate	(250)	76.9	78	78	70	80	77	70	82
	TDS	(500)	260	311	390	300	310	310	300	290
APPENDIX IV	Antimony	0.006	ND	ND	ND	ND	ND	ND	ND	ND
	Arsenic	0.01	ND	ND	ND	ND	ND	ND	ND	ND (0.00076 J)
	Barium	2	0.0914	0.0933	0.086	0.093	0.096	0.091	0.088	0.094
	Beryllium	0.004	ND	ND	ND	ND	ND	ND	ND	ND
	Cadmium	0.005	ND	ND	ND	ND	ND	ND (0.00039 J)	ND	ND
	Chromium	0.1	ND	ND (0.0012 J)	ND	ND	ND	ND	ND	ND
	Cobalt	N/R	ND	ND	ND	ND	ND	ND	ND	ND
	Lead	0.015	ND	ND (0.00009 J)	ND	ND	ND	ND	ND	ND
	Lithium	N/R	ND	ND	ND	ND	ND	ND	ND	ND
	Mercury	0.002	ND	ND	ND	ND	ND (0.0001 J)	ND	ND	ND
	Molybdenum	N/R	ND	ND	ND	ND	ND	ND	ND	ND
	Radium	5	0.216 U	0.253 U	0.115 U	0.593	0.897	0.132 U	0.287 U	0.143 U
Selenium	0.05	ND	ND	ND	ND	ND	ND	ND	ND	
Thallium	0.002	ND	ND	ND	ND	ND	ND	ND	ND	

Notes:

1. MCL indicates Environmental Protection Agency (EPA) and Georgia Environmental Protection Division (EPD) maximum contaminant level.
2. (SMCL) indicates a secondary MCL that is established by EPA as a general guideline only (not enforced).
3. Results for substances are reported in milligrams per liter (mg/L). Radium results are reported in picocuries per liter (pCi/L).
4. ND (Not Detected) indicates the substance was not detected above the analytical method detection limit (MDL).
5. ND (value J) indicates the substance was detected at such low levels that the precision of the laboratory instruments could not produce a reliable value. Therefore, the value displayed (value J) is qualified by the laboratory as an estimated number.
6. N/R indicates a substance does not have an MCL or SMCL, but will be further evaluated statistically at the conclusion of all the background sampling events, as required by EPA's CCR rule.
7. TDS indicates total dissolved solids.
8. U indicates the substance was detected below the Minimum Detection Concentration (MDC) and the precision of the laboratory instruments could not produce a reliable value. Therefore, the value followed by U is qualified by the laboratory as estimated.
9. Appendix III = indicator parameters evaluated during Detection Monitoring; Appendix IV = parameters evaluated during Assessment Monitoring.

Table A-22.
ANALYTICAL DATA SUMMARY
Georgia Power - Plant Scherer Ash Pond
Juliette, GA

Substance	MCL/ (SMCL)	WELL ID								
		SGWC-22	SGWC-22	SGWC-22	SGWC-22	SGWC-22	SGWC-22	SGWC-22	SGWC-22	SGWC-22
		5/12/2016	6/29/2016	8/19/2016	10/18/2016	12/7/2016	2/16/2017	4/13/2017	6/28/2017	
APPENDIX III	Boron	N/R	0.411	0.373	0.37	0.41	0.36	0.38	0.4	0.35
	Calcium	N/R	21.9	21.8	22	23	23	27	27	25
	Chloride	(250)	10.6	9.7	11	10	10	9.8	9.6	10
	Fluoride	4	ND (0.029 J)	ND (0.04 J)	ND	ND	ND	ND (0.1 J)	ND	ND
	Sulfate	(250)	85.3	84	81	83	85	83	79	90
	TDS	(500)	212	214	230	190	230	200	220	190
APPENDIX IV	Antimony	0.006	ND	ND	ND	ND	ND	ND	ND	ND
	Arsenic	0.01	ND	ND	ND	ND	ND	ND	ND (0.0006 J)	ND (0.00089 J)
	Barium	2	0.1	0.0991	0.096	0.096	0.09	0.091	0.091	0.1
	Beryllium	0.004	ND	ND	ND	ND	ND	ND	ND	ND
	Cadmium	0.005	ND	ND	ND	ND	ND	ND	ND	ND
	Chromium	0.1	ND	ND (0.0007 J)	ND	ND	ND	ND	ND	ND
	Cobalt	N/R	ND (0.00619 J)	ND (0.0051 J)	0.0045	0.0043	0.0034	0.0031	0.0031	0.0029
	Lead	0.015	ND	ND	ND	ND	ND	ND	ND	ND
	Lithium	N/R	ND	ND	ND	ND	ND	ND	ND	ND
	Mercury	0.002	ND	ND	ND	ND	ND (0.000099 J)	ND	ND	ND
	Molybdenum	N/R	ND	ND	ND	ND	ND	ND	ND	ND
	Radium	5	0.285 U	1.1	0.367 U	0.276 U	0.318 U	0.168 U	0.300 U	0.0844 U
Selenium	0.05	ND	ND	ND	ND	ND	ND	ND	ND	
Thallium	0.002	ND	ND	ND	ND	ND	ND	ND	ND	

Notes:

1. MCL indicates Environmental Protection Agency (EPA) and Georgia Environmental Protection Division (EPD) maximum contaminant level.
2. (SMCL) indicates a secondary MCL that is established by EPA as a general guideline only (not enforced).
3. Results for substances are reported in milligrams per liter (mg/L). Radium results are reported in picocuries per liter (pCi/L).
4. ND (Not Detected) indicates the substance was not detected above the analytical method detection limit (MDL).
5. ND (value J) indicates the substance was detected at such low levels that the precision of the laboratory instruments could not produce a reliable value. Therefore, the value displayed (value J) is qualified by the laboratory as an estimated number.
6. N/R indicates a substance does not have an MCL or SMCL, but will be further evaluated statistically at the conclusion of all the background sampling events, as required by EPA's CCR rule.
7. TDS indicates total dissolved solids.
8. U indicates the substance was detected below the Minimum Detection Concentration (MDC) and the precision of the laboratory instruments could not produce a reliable value. Therefore, the value followed by U is qualified by the laboratory as estimated.
9. Appendix III = indicator parameters evaluated during Detection Monitoring; Appendix IV = parameters evaluated during Assessment Monitoring.

Table A-23.
ANALYTICAL DATA SUMMARY
Georgia Power - Plant Scherer Ash Pond
Juliette, GA

Substance	MCL/ (SMCL)	WELL ID								
		SGWC-23	SGWC-23	SGWC-23	SGWC-23	SGWC-23	SGWC-23	SGWC-23	SGWC-23	SGWC-23
		5/12/2016	6/29/2016	8/19/2016	10/18/2016	12/7/2016	2/15/2017	4/13/2017	6/28/2017	
APPENDIX III	Boron	N/R	0.691	0.557	0.58	0.68	0.6	0.82	0.54	0.59
	Calcium	N/R	27.6	25.6	29	32	30	32	31	27
	Chloride	(250)	9.63	8.8	9.6	9.6	9.7	10	9	9.6
	Fluoride	4	ND (0.0341 J)	ND (0.04 J)	ND	ND	ND	ND (0.092 J)	ND	ND
	Sulfate	(250)	131	120	120	130	140	120	100	120
	TDS	(500)	288	272	290	270	300	260	300	250
APPENDIX IV	Antimony	0.006	ND	ND	ND	ND	ND	ND	ND	ND
	Arsenic	0.01	ND	ND	ND	ND	ND	ND	ND (0.00061 J)	ND (0.00079 J)
	Barium	2	0.0959	0.0957	0.093	0.093	0.09	0.09	0.081	0.085
	Beryllium	0.004	ND	ND	ND	ND	ND	ND	ND	ND
	Cadmium	0.005	ND	ND	ND	ND	ND	ND	ND	ND
	Chromium	0.1	ND	ND (0.0013 J)	ND	ND	ND	ND	ND (0.0014 J)	0.0025
	Cobalt	N/R	ND	ND	ND	ND	ND	ND	ND	ND
	Lead	0.015	ND	ND (0.00009 J)	ND	ND	ND	ND	ND	ND
	Lithium	N/R	ND	ND (0.0027 J)	ND	ND (0.0032 J)	ND (0.0043 J)	ND	ND (0.0036 J)	ND (0.0032 J)
	Mercury	0.002	ND	ND	ND (0.000071 J)	ND	ND (0.00011 J)	ND	ND	ND
	Molybdenum	N/R	ND	ND	ND	ND	ND	ND	ND	ND
	Radium	5	0.801	0.423 U	0.869	0.881	0.455	0.635	0.413	0.331 U
Selenium	0.05	ND	ND	ND	ND	ND	ND	ND	ND (0.00033 J)	
Thallium	0.002	ND	ND	ND	ND	ND	ND	ND	ND	

Notes:

1. MCL indicates Environmental Protection Agency (EPA) and Georgia Environmental Protection Division (EPD) maximum contaminant level.
2. (SMCL) indicates a secondary MCL that is established by EPA as a general guideline only (not enforced).
3. Results for substances are reported in milligrams per liter (mg/L). Radium results are reported in picocuries per liter (pCi/L).
4. ND (Not Detected) indicates the substance was not detected above the analytical method detection limit (MDL).
5. ND (value J) indicates the substance was detected at such low levels that the precision of the laboratory instruments could not produce a reliable value. Therefore, the value displayed (value J) is qualified by the laboratory as an estimated number.
6. N/R indicates a substance does not have an MCL or SMCL, but will be further evaluated statistically at the conclusion of all the background sampling events, as required by EPA's CCR rule.
7. TDS indicates total dissolved solids.
8. U indicates the substance was detected below the Minimum Detection Concentration (MDC) and the precision of the laboratory instruments could not produce a reliable value. Therefore, the value followed by U is qualified by the laboratory as estimated.
9. Appendix III = indicator parameters evaluated during Detection Monitoring; Appendix IV = parameters evaluated during Assessment Monitoring.

Table A-24.
ANALYTICAL DATA SUMMARY
Georgia Power - Plant Scherer Ash Pond
Juliette, GA

Substance	MCL/ (SMCL)	WELL ID								
		SGWA-24	SGWA-24	SGWA-24	SGWA-24	SGWA-24	SGWA-24	SGWA-24	SGWA-24	SGWA-24
		5/10/2016	6/23/2016	8/16/2016	10/13/2016	12/5/2016	2/14/2017	4/10/2017	6/26/2017	
APPENDIX III	Boron	N/R	ND	ND	ND	ND	ND	ND	ND	ND
	Calcium	N/R	12.3	11.3	11	12	12	13	12	13
	Chloride	(250)	1.94	2.2	2	1.9	1.9	1.9	1.8	1.9
	Fluoride	4	ND (0.0648 J)	ND(0.05 J)	ND	ND	ND	ND	ND	ND
	Sulfate	(250)	ND	ND (0.3 J)	ND	ND	ND	ND	ND	ND
	TDS	(500)	110	118	110	120	110	86	120	130
APPENDIX IV	Antimony	0.006	ND	ND (0.0003 J)	ND	ND	ND	ND	ND	ND
	Arsenic	0.01	ND	ND	ND	ND	ND	ND (0.00057 J)	ND	ND (0.0009 J)
	Barium	2	0.0214	0.0204	0.018	0.022	0.023	0.021	0.021	0.022
	Beryllium	0.004	ND	ND	ND	ND	ND	ND	ND	ND
	Cadmium	0.005	ND	ND	ND	ND	ND	ND	ND	ND
	Chromium	0.1	ND (0.00393 J)	ND (0.0027 J)	0.0038	0.0031	0.0027	0.0037	0.0037	0.0047
	Cobalt	N/R	ND	ND (0.0004 J)	ND	ND (0.0004 J)	ND	ND	ND	ND
	Lead	0.015	ND	ND (0.0001 J)	ND	ND	ND	ND	ND	ND
	Lithium	N/R	ND	ND	ND	ND	ND	ND	ND	ND
	Mercury	0.002	ND	ND	ND	ND	ND (0.00012 J)	ND	ND	ND
	Molybdenum	N/R	ND	ND	ND	ND	ND	ND	ND	ND
	Radium	5	0.310 U	0.455 U	0.162 U	0.327 U	0.233 U	0.237 U	0.000560 U	-0.257 U
	Selenium	0.05	ND	ND	ND	ND	ND	ND	ND	ND
Thallium	0.002	ND	ND	ND	ND	ND	ND	ND	ND	

Notes:

1. MCL indicates Environmental Protection Agency (EPA) and Georgia Environmental Protection Division (EPD) maximum contaminant level.
2. (SMCL) indicates a secondary MCL that is established by EPA as a general guideline only (not enforced).
3. Results for substances are reported in milligrams per liter (mg/L). Radium results are reported in picocuries per liter (pCi/L).
4. ND (Not Detected) indicates the substance was not detected above the analytical method detection limit (MDL).
5. ND (value J) indicates the substance was detected at such low levels that the precision of the laboratory instruments could not produce a reliable value. Therefore, the value displayed (value J) is qualified by the laboratory as an estimated number.
6. N/R indicates a substance does not have an MCL or SMCL, but will be further evaluated statistically at the conclusion of all the background sampling events, as required by EPA's CCR rule.
7. TDS indicates total dissolved solids.
8. U indicates the substance was detected below the Minimum Detection Concentration (MDC) and the precision of the laboratory instruments could not produce a reliable value. Therefore, the value followed by U is qualified by the laboratory as estimated.
9. Appendix III = indicator parameters evaluated during Detection Monitoring; Appendix IV = parameters evaluated during Assessment Monitoring.

Table A-25.
ANALYTICAL DATA SUMMARY
Georgia Power - Plant Scherer Ash Pond
Juliette, GA

Substance		MCL/ (SMCL)	WELL ID							
			SGWA-25	SGWA-25	SGWA-25	SGWA-25	SGWA-25	SGWA-25	SGWA-25	SGWA-25
			5/10/2016	6/27/2016	8/17/2016	10/14/2016	12/6/2016	2/14/2017	4/11/2017	6/27/2017
APPENDIX III	Boron	N/R	ND	ND (0.0052 J)	ND	ND	ND	ND	ND	ND
	Calcium	N/R	11.4	9.16	9.6	11	11	12	11	9.5
	Chloride	(250)	2.77	2.9	2.4	2.1	1.7	1.5	1.7	2.2
	Fluoride	4	ND (0.041 J)	ND (0.03 J)	ND	ND	ND	ND	ND	ND
	Sulfate	(250)	ND (0.686 J)	ND (0.61 J)	ND	ND	ND	ND	ND	ND
	TDS	(500)	100	117	86	80	110	98	110	18
APPENDIX IV	Antimony	0.006	ND	ND (0.0003 J)	ND	ND	ND	ND	ND	ND
	Arsenic	0.01	ND	ND	ND (0.0012 J)	ND (0.00073 J)	ND (0.00075 J)	0.0015	ND (0.00072 J)	ND (0.00095 J)
	Barium	2	0.0253	0.0253	0.021	0.023	0.02	0.018	0.021	0.024
	Beryllium	0.004	ND	ND	ND	ND	ND	ND	ND	ND
	Cadmium	0.005	ND	ND	ND	ND	ND	ND	ND	ND
	Chromium	0.1	ND	ND	ND	ND	ND	ND	ND	ND
	Cobalt	N/R	0.0132	ND (0.0099 J)	0.01	0.013	0.016	0.018	0.015	0.0088
	Lead	0.015	ND	ND	ND	ND	ND	ND	ND	ND
	Lithium	N/R	ND	ND	ND	ND	ND	ND	ND	ND
	Mercury	0.002	ND	ND	ND	ND	ND (0.00011 J)	ND	ND	ND
	Molybdenum	N/R	ND	ND	ND	ND	ND	ND	ND	ND
	Radium	5	-0.0130 U	0.667 U	0.148 U	0.448 U	0.510	0.302 U	-0.0184 U	-0.0536 U
	Selenium	0.05	ND	ND	ND	ND	ND	ND	ND	ND
Thallium	0.002	ND	ND	ND	ND	ND	ND	ND	ND	

Notes:

1. MCL indicates Environmental Protection Agency (EPA) and Georgia Environmental Protection Division (EPD) maximum contaminant level.
2. (SMCL) indicates a secondary MCL that is established by EPA as a general guideline only (not enforced).
3. Results for substances are reported in milligrams per liter (mg/L). Radium results are reported in picocuries per liter (pCi/L).
4. ND (Not Detected) indicates the substance was not detected above the analytical method detection limit (MDL).
5. ND (value J) indicates the substance was detected at such low levels that the precision of the laboratory instruments could not produce a reliable value. Therefore, the value displayed (value J) is qualified by the laboratory as an estimated number.
6. N/R indicates a substance does not have an MCL or SMCL, but will be further evaluated statistically at the conclusion of all the background sampling events, as required by EPA's CCR rule.
7. TDS indicates total dissolved solids.
8. U indicates the substance was detected below the Minimum Detection Concentration (MDC) and the precision of the laboratory instruments could not produce a reliable value. Therefore, the value followed by U is qualified by the laboratory as estimated.
9. Appendix III = indicator parameters evaluated during Detection Monitoring; Appendix IV = parameters evaluated during Assessment Monitoring.



APPENDIX A

ANALYTICAL RESULTS & FIELD DATA FORMS

(MAY 2016)

June 1, 2016

Joju Abraham
Southern Company Services
Earth Sciences & Env Eng
42 Inverness Center Parkway
Birmingham, AL 35242

RE: Workorder: 103299 CCR - Scherer AP

Dear Joju Abraham:

The Environmental Laboratory has completed the analysis of your samples and reports the results on the attached pages. Our laboratory maintains current NELAC accreditation for those analytes listed under the scope of accreditation. Analytes not listed in this scope are currently not maintained under an accreditation program. The analytes of this report that are listed under our NELAC scope of accreditation meet all requirements of the NELAC standards, unless otherwise noted by data qualifiers. Internal clients can view the scope and effective dates of our accreditation at:

<http://environmental.southernco.com/gpc/environmental-lab/chem.html>

External clients can receive a copy of our scope of accreditation by contacting the laboratory.

All results relate only to the contents of the samples submitted. Samples will be disposed of after 30 days unless otherwise instructed. This report should only be reproduced in full with all associated records. 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.

If you have any questions or comments, contact your Program Manager:

Maria Padilla

mrpadill@southernco.com

(404) 799-2188 / 8-530-2188

Respectfully submitted,



R. S. Dickerson
rsdicker@southernco.com
QA/QC Specialist

Report ID: 103299 - 5033325
GPC Report Page 1 of 21

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SAMPLE SUMMARY

Workorder: 103299 CCR - Scherer AP

Lab ID	Sample ID	Analysis Request Number	Matrix	Date Collected	Date Received
103299001	SGWA-3	N/A	Water	5/10/2016 09:47	5/11/2016 08:45
103299002	SGWA-25	N/A	Water	5/10/2016 15:34	5/11/2016 08:45
103299003	SGWA-24	N/A	Water	5/10/2016 09:21	5/11/2016 08:45
103299004	SGWA-5	N/A	Water	5/10/2016 11:46	5/11/2016 08:45
103299005	DUP-5	N/A	Water	5/10/2016 00:00	5/11/2016 08:45
103299006	SGWA-1	N/A	Water	5/10/2016 10:26	5/11/2016 08:45
103299007	SGWA-2	N/A	Water	5/10/2016 16:18	5/11/2016 08:45

Report ID: 103299 - 5033325
GPC Report Page 2 of 21

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ANALYTICAL RESULTS

Workorder: 103299 CCR - Scherer AP

Lab ID:	103299001	Date Received:	5/11/2016 08:45
Sample ID:	SGWA-3	Date Collected:	5/10/2016 09:47
Sample Description	Ash Pond-Upgradient	Matrix:	Water
Location	Scherer AP		

Parameters	Results	Units	MDL	RL	Prepared	By	Analyzed	By	Qual
Analysis Desc: EPA 6010D		Preparation Method: EPA 3005A							
		Analytical Method: EPA 6010D							
INORGANICS					5/17/2016 10:30	KLW	5/17/2016 14:47		HAM
Calcium	6.22	mg/L	0.100	0.500	5/17/2016 10:30	KLW	5/17/2016 14:47		HAM
Analysis Desc: EPA 7470A		Preparation Method: EPA 7470A							
		Analytical Method: EPA 7470A							
TOTAL METALS					5/13/2016 06:14	WCM	5/13/2016 12:37		WCM
Mercury	<0.000500	mg/L	0.000250	0.000500	5/13/2016 06:14	WCM	5/13/2016 12:37		WCM
Analysis Desc: EPA 6020B		Preparation Method: EPA 3005A							
		Analytical Method: EPA 6020B							
Lithium	<0.0500	mg/L	0.0100	0.0500	5/12/2016 10:10	KLW	5/23/2016 16:37		MRP
Beryllium	<0.00300	mg/L	0.000600	0.00300	5/12/2016 10:10	KLW	5/23/2016 16:37		MRP
Boron	<0.100	mg/L	0.0200	0.100	5/12/2016 10:10	KLW	5/23/2016 16:37		MRP
Chromium	0.00634J	mg/L	0.00200	0.0100	5/12/2016 10:10	KLW	5/23/2016 16:37		MRP
Cobalt	<0.0100	mg/L	0.00200	0.0100	5/12/2016 10:10	KLW	5/23/2016 16:37		MRP
Arsenic	<0.00500	mg/L	0.00100	0.00500	5/12/2016 10:10	KLW	5/23/2016 16:37		MRP
Selenium	<0.0100	mg/L	0.00200	0.0100	5/12/2016 10:10	KLW	5/23/2016 16:37		MRP
Molybdenum	<0.0100	mg/L	0.00200	0.0100	5/12/2016 10:10	KLW	5/23/2016 16:37		MRP
Cadmium	<0.00100	mg/L	0.000100	0.00100	5/12/2016 10:10	KLW	5/23/2016 16:37		MRP
Antimony	<0.00300	mg/L	0.000600	0.00300	5/12/2016 10:10	KLW	5/23/2016 16:37		MRP
Barium	0.0360	mg/L	0.00200	0.0100	5/12/2016 10:10	KLW	5/23/2016 16:37		MRP
Thallium	<0.00100	mg/L	0.000200	0.00100	5/12/2016 10:10	KLW	5/23/2016 16:37		MRP
Lead	<0.00500	mg/L	0.00100	0.00500	5/12/2016 10:10	KLW	5/23/2016 16:37		MRP
Analysis Desc: EPA 300		Analytical Method: EPA 300							
TOTAL NUTRIENTS							5/18/2016 17:25		LBB
Sulfate	2.82	mg/L	0.3000	1.00			5/18/2016 06:57		LBB
Chloride	3.45	mg/L	0.0800	0.5000			5/18/2016 17:25		LBB
Fluoride	0.0192J	mg/L	0.0100	0.3000			5/18/2016 06:57		LBB
Analysis Desc: SM 2540C		Analytical Method: SM 2540C							
WET CHEMISTRY							5/11/2016 14:40		KLW
TDS	59	mg/L	25	25			5/11/2016 14:40		KLW

Report ID: 103299 - 5033325
 GPC Report Page 3 of 21

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ANALYTICAL RESULTS

Workorder: 103299 CCR - Scherer AP

Lab ID:	103299002	Date Received:	5/11/2016 08:45
Sample ID:	SGWA-25	Date Collected:	5/10/2016 15:34
Sample Description	Ash Pond-Upgradient	Matrix:	Water
Location	Scherer AP		

Parameters	Results	Units	MDL	RL	Prepared	By	Analyzed	By	Qual
Analysis Desc: EPA 6010D		Preparation Method: EPA 3005A							
		Analytical Method: EPA 6010D							
INORGANICS					5/17/2016 10:30	KLW	5/17/2016 14:53	HAM	
Calcium	11.4	mg/L	0.100	0.500	5/17/2016 10:30	KLW	5/17/2016 14:53	HAM	
Analysis Desc: EPA 7470A		Preparation Method: EPA 7470A							
		Analytical Method: EPA 7470A							
TOTAL METALS					5/13/2016 06:14	WCM	5/13/2016 12:45	WCM	
Mercury	<0.000500	mg/L	0.000250	0.000500	5/13/2016 06:14	WCM	5/13/2016 12:45	WCM	
Analysis Desc: EPA 6020B		Preparation Method: EPA 3005A							
		Analytical Method: EPA 6020B							
Lithium	<0.0500	mg/L	0.0100	0.0500	5/12/2016 10:10	KLW	5/23/2016 16:42	MRP	
Beryllium	<0.00300	mg/L	0.000600	0.00300	5/12/2016 10:10	KLW	5/23/2016 16:42	MRP	
Boron	<0.100	mg/L	0.0200	0.100	5/12/2016 10:10	KLW	5/23/2016 16:42	MRP	
Chromium	<0.0100	mg/L	0.00200	0.0100	5/12/2016 10:10	KLW	5/23/2016 16:42	MRP	
Cobalt	0.0132	mg/L	0.00200	0.0100	5/12/2016 10:10	KLW	5/23/2016 16:42	MRP	
Arsenic	<0.00500	mg/L	0.00100	0.00500	5/12/2016 10:10	KLW	5/23/2016 16:42	MRP	
Selenium	<0.0100	mg/L	0.00200	0.0100	5/12/2016 10:10	KLW	5/23/2016 16:42	MRP	
Molybdenum	<0.0100	mg/L	0.00200	0.0100	5/12/2016 10:10	KLW	5/23/2016 16:42	MRP	
Cadmium	<0.00100	mg/L	0.000100	0.00100	5/12/2016 10:10	KLW	5/23/2016 16:42	MRP	
Antimony	<0.00300	mg/L	0.000600	0.00300	5/12/2016 10:10	KLW	5/23/2016 16:42	MRP	
Barium	0.0253	mg/L	0.00200	0.0100	5/12/2016 10:10	KLW	5/23/2016 16:42	MRP	
Thallium	<0.00100	mg/L	0.000200	0.00100	5/12/2016 10:10	KLW	5/23/2016 16:42	MRP	
Lead	<0.00500	mg/L	0.00100	0.00500	5/12/2016 10:10	KLW	5/23/2016 16:42	MRP	
Analysis Desc: EPA 300		Analytical Method: EPA 300							
TOTAL NUTRIENTS							5/18/2016 07:27	LBB	
Sulfate	0.6860J	mg/L	0.3000	1.00			5/18/2016 07:27	LBB	
Chloride	2.77	mg/L	0.0400	0.2500			5/18/2016 07:27	LBB	
Fluoride	0.0410J	mg/L	0.0100	0.3000			5/18/2016 07:27	LBB	
Analysis Desc: SM 2540C		Analytical Method: SM 2540C							
WET CHEMISTRY							5/11/2016 14:40	KLW	
TDS	100	mg/L	25	25			5/11/2016 14:40	KLW	

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 GPC Report Page 4 of 21

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ANALYTICAL RESULTS

Workorder: 103299 CCR - Scherer AP

Lab ID:	103299003	Date Received:	5/11/2016 08:45
Sample ID:	SGWA-24	Date Collected:	5/10/2016 09:21
Sample Description	Ash Pond	Matrix:	Water
Location	Scherer AP		

Parameters	Results	Units	MDL	RL	Prepared	By	Analyzed	By	Qual
Analysis Desc: EPA 6010D		Preparation Method: EPA 3005A							
		Analytical Method: EPA 6010D							
INORGANICS					5/17/2016 10:30	KLW	5/17/2016 14:59	HAM	
Calcium	12.3	mg/L	0.100	0.500	5/17/2016 10:30	KLW	5/17/2016 14:59	HAM	
Analysis Desc: EPA 7470A		Preparation Method: EPA 7470A							
		Analytical Method: EPA 7470A							
TOTAL METALS					5/13/2016 06:14	WCM	5/13/2016 12:50	WCM	
Mercury	<0.000500	mg/L	0.000250	0.000500	5/13/2016 06:14	WCM	5/13/2016 12:50	WCM	
Analysis Desc: EPA 6020B		Preparation Method: EPA 3005A							
		Analytical Method: EPA 6020B							
Lithium	<0.0500	mg/L	0.0100	0.0500	5/12/2016 10:10	KLW	5/23/2016 16:47	MRP	
Beryllium	<0.00300	mg/L	0.000600	0.00300	5/12/2016 10:10	KLW	5/23/2016 16:47	MRP	
Boron	<0.100	mg/L	0.0200	0.100	5/12/2016 10:10	KLW	5/23/2016 16:47	MRP	
Chromium	0.00393J	mg/L	0.00200	0.0100	5/12/2016 10:10	KLW	5/23/2016 16:47	MRP	
Cobalt	<0.0100	mg/L	0.00200	0.0100	5/12/2016 10:10	KLW	5/23/2016 16:47	MRP	
Arsenic	<0.00500	mg/L	0.00100	0.00500	5/12/2016 10:10	KLW	5/23/2016 16:47	MRP	
Selenium	<0.0100	mg/L	0.00200	0.0100	5/12/2016 10:10	KLW	5/23/2016 16:47	MRP	
Molybdenum	<0.0100	mg/L	0.00200	0.0100	5/12/2016 10:10	KLW	5/23/2016 16:47	MRP	
Cadmium	<0.00100	mg/L	0.000100	0.00100	5/12/2016 10:10	KLW	5/23/2016 16:47	MRP	
Antimony	<0.00300	mg/L	0.000600	0.00300	5/12/2016 10:10	KLW	5/23/2016 16:47	MRP	
Barium	0.0214	mg/L	0.00200	0.0100	5/12/2016 10:10	KLW	5/23/2016 16:47	MRP	
Thallium	<0.00100	mg/L	0.000200	0.00100	5/12/2016 10:10	KLW	5/23/2016 16:47	MRP	
Lead	<0.00500	mg/L	0.00100	0.00500	5/12/2016 10:10	KLW	5/23/2016 16:47	MRP	
Analysis Desc: EPA 300		Analytical Method: EPA 300							
TOTAL NUTRIENTS							5/18/2016 07:57	LBB	
Sulfate	<1.00	mg/L	0.3000	1.00			5/18/2016 07:57	LBB	
Chloride	1.94	mg/L	0.0400	0.2500			5/18/2016 07:57	LBB	
Fluoride	0.0648J	mg/L	0.0100	0.3000			5/18/2016 07:57	LBB	
Analysis Desc: SM 2540C		Analytical Method: SM 2540C							
WET CHEMISTRY							5/11/2016 14:40	KLW	
TDS	110	mg/L	25	25			5/11/2016 14:40	KLW	

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 GPC Report Page 5 of 21

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ANALYTICAL RESULTS

Workorder: 103299 CCR - Scherer AP

Lab ID:	103299004	Date Received:	5/11/2016 08:45
Sample ID:	SGWA-5	Date Collected:	5/10/2016 11:46
Sample Description	Ash Pond	Matrix:	Water
Location	Scherer AP		

Parameters	Results	Units	MDL	RL	Prepared	By	Analyzed	By	Qual
Analysis Desc: EPA 6010D		Preparation Method: EPA 3005A							
		Analytical Method: EPA 6010D							
INORGANICS					5/17/2016 10:30	KLW	5/17/2016 15:05	HAM	
Calcium	2.64	mg/L	0.100	0.500	5/17/2016 10:30	KLW	5/17/2016 15:05	HAM	
Analysis Desc: EPA 7470A		Preparation Method: EPA 7470A							
		Analytical Method: EPA 7470A							
TOTAL METALS					5/13/2016 06:14	WCM	5/13/2016 12:53	WCM	
Mercury	<0.000500	mg/L	0.000250	0.000500	5/13/2016 06:14	WCM	5/13/2016 12:53	WCM	
Analysis Desc: EPA 6020B		Preparation Method: EPA 3005A							
		Analytical Method: EPA 6020B							
Lithium	<0.0500	mg/L	0.0100	0.0500	5/12/2016 10:10	KLW	5/23/2016 17:10	MRP	
Beryllium	<0.00300	mg/L	0.000600	0.00300	5/12/2016 10:10	KLW	5/23/2016 17:10	MRP	
Boron	<0.100	mg/L	0.0200	0.100	5/12/2016 10:10	KLW	5/23/2016 17:10	MRP	
Chromium	<0.0100	mg/L	0.00200	0.0100	5/12/2016 10:10	KLW	5/23/2016 17:10	MRP	
Cobalt	<0.0100	mg/L	0.00200	0.0100	5/12/2016 10:10	KLW	5/23/2016 17:10	MRP	
Arsenic	<0.00500	mg/L	0.00100	0.00500	5/12/2016 10:10	KLW	5/23/2016 17:10	MRP	
Selenium	<0.0100	mg/L	0.00200	0.0100	5/12/2016 10:10	KLW	5/23/2016 17:10	MRP	
Molybdenum	<0.0100	mg/L	0.00200	0.0100	5/12/2016 10:10	KLW	5/23/2016 17:10	MRP	
Cadmium	<0.00100	mg/L	0.000100	0.00100	5/12/2016 10:10	KLW	5/23/2016 17:10	MRP	
Antimony	<0.00300	mg/L	0.000600	0.00300	5/12/2016 10:10	KLW	5/23/2016 17:10	MRP	
Barium	0.0112	mg/L	0.00200	0.0100	5/12/2016 10:10	KLW	5/23/2016 17:10	MRP	
Thallium	<0.00100	mg/L	0.000200	0.00100	5/12/2016 10:10	KLW	5/23/2016 17:10	MRP	
Lead	<0.00500	mg/L	0.00100	0.00500	5/12/2016 10:10	KLW	5/23/2016 17:10	MRP	
Analysis Desc: EPA 300		Analytical Method: EPA 300							
TOTAL NUTRIENTS							5/18/2016 08:27	LBB	
Sulfate	0.4716J	mg/L	0.3000	1.00			5/18/2016 08:27	LBB	
Chloride	1.98	mg/L	0.0400	0.2500			5/18/2016 08:27	LBB	
Fluoride	0.0188J	mg/L	0.0100	0.3000			5/18/2016 08:27	LBB	
Analysis Desc: SM 2540C		Analytical Method: SM 2540C							
WET CHEMISTRY							5/11/2016 14:40	KLW	
TDS	64	mg/L	25	25			5/11/2016 14:40	KLW	

Report ID: 103299 - 5033325
 GPC Report Page 6 of 21

CERTIFICATE OF ANALYSIS

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ANALYTICAL RESULTS

Workorder: 103299 CCR - Scherer AP

Lab ID:	103299005	Date Received:	5/11/2016 08:45
Sample ID:	DUP-5	Date Collected:	5/10/2016 00:00
Sample Description	Ash Pond Duplicate	Matrix:	Water
Location	Scherer AP		

Parameters	Results	Units	MDL	RL	Prepared	By	Analyzed	By	Qual
Analysis Desc: EPA 6010D		Preparation Method: EPA 3005A							
		Analytical Method: EPA 6010D							
INORGANICS					5/17/2016 10:30	KLW	5/17/2016 15:11	HAM	
Calcium	2.53	mg/L	0.100	0.500	5/17/2016 10:30	KLW	5/17/2016 15:11	HAM	
Analysis Desc: EPA 7470A		Preparation Method: EPA 7470A							
		Analytical Method: EPA 7470A							
TOTAL METALS					5/13/2016 06:14	WCM	5/13/2016 12:56	WCM	
Mercury	<0.000500	mg/L	0.000250	0.000500	5/13/2016 06:14	WCM	5/13/2016 12:56	WCM	
Analysis Desc: EPA 6020B		Preparation Method: EPA 3005A							
		Analytical Method: EPA 6020B							
Lithium	<0.0500	mg/L	0.0100	0.0500	5/12/2016 10:10	KLW	5/23/2016 17:15	MRP	
Beryllium	<0.00300	mg/L	0.000600	0.00300	5/12/2016 10:10	KLW	5/23/2016 17:15	MRP	
Boron	<0.100	mg/L	0.0200	0.100	5/12/2016 10:10	KLW	5/23/2016 17:15	MRP	
Chromium	<0.0100	mg/L	0.00200	0.0100	5/12/2016 10:10	KLW	5/23/2016 17:15	MRP	
Cobalt	<0.0100	mg/L	0.00200	0.0100	5/12/2016 10:10	KLW	5/23/2016 17:15	MRP	
Arsenic	<0.00500	mg/L	0.00100	0.00500	5/12/2016 10:10	KLW	5/23/2016 17:15	MRP	
Selenium	<0.0100	mg/L	0.00200	0.0100	5/12/2016 10:10	KLW	5/23/2016 17:15	MRP	
Molybdenum	<0.0100	mg/L	0.00200	0.0100	5/12/2016 10:10	KLW	5/23/2016 17:15	MRP	
Cadmium	<0.00100	mg/L	0.000100	0.00100	5/12/2016 10:10	KLW	5/23/2016 17:15	MRP	
Antimony	<0.00300	mg/L	0.000600	0.00300	5/12/2016 10:10	KLW	5/23/2016 17:15	MRP	
Barium	0.0122	mg/L	0.00200	0.0100	5/12/2016 10:10	KLW	5/23/2016 17:15	MRP	
Thallium	<0.00100	mg/L	0.000200	0.00100	5/12/2016 10:10	KLW	5/23/2016 17:15	MRP	
Lead	<0.00500	mg/L	0.00100	0.00500	5/12/2016 10:10	KLW	5/23/2016 17:15	MRP	
Analysis Desc: EPA 300		Analytical Method: EPA 300							
TOTAL NUTRIENTS							5/18/2016 08:57	LBB	
Sulfate	0.4569J	mg/L	0.3000	1.00			5/18/2016 08:57	LBB	
Chloride	1.95	mg/L	0.0400	0.2500			5/18/2016 08:57	LBB	
Fluoride	0.0190J	mg/L	0.0100	0.3000			5/18/2016 08:57	LBB	
Analysis Desc: SM 2540C		Analytical Method: SM 2540C							
WET CHEMISTRY							5/11/2016 14:40	KLW	
TDS	78	mg/L	25	25			5/11/2016 14:40	KLW	

Report ID: 103299 - 5033325
 GPC Report Page 7 of 21

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ANALYTICAL RESULTS

Workorder: 103299 CCR - Scherer AP

Lab ID:	103299006	Date Received:	5/11/2016 08:45
Sample ID:	SGWA-1	Date Collected:	5/10/2016 10:26
Sample Description	Plant Scherer Ash Pond	Matrix:	Water
Location	Scherer AP		

Parameters	Results	Units	MDL	RL	Prepared	By	Analyzed	By	Qual
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Analysis Desc: EPA 6010D		Preparation Method: EPA 3005A							
		Analytical Method: EPA 6010D							

INORGANICS					5/17/2016 10:30	KLW	5/17/2016 15:17	HAM	
Calcium	3.00	mg/L	0.100	0.500	5/17/2016 10:30	KLW	5/17/2016 15:17	HAM	

Analysis Desc: EPA 7470A		Preparation Method: EPA 7470A							
		Analytical Method: EPA 7470A							

TOTAL METALS					5/13/2016 06:14	WCM	5/13/2016 12:58	WCM	
Mercury	<0.000500	mg/L	0.000250	0.000500	5/13/2016 06:14	WCM	5/13/2016 12:58	WCM	

Analysis Desc: EPA 6020B		Preparation Method: EPA 3005A							
		Analytical Method: EPA 6020B							

Lithium	<0.0500	mg/L	0.0100	0.0500	5/12/2016 10:10	KLW	5/23/2016 17:20	MRP	
Beryllium	<0.00300	mg/L	0.000600	0.00300	5/12/2016 10:10	KLW	5/23/2016 17:20	MRP	
Boron	<0.100	mg/L	0.0200	0.100	5/12/2016 10:10	KLW	5/23/2016 17:20	MRP	
Chromium	<0.0100	mg/L	0.00200	0.0100	5/12/2016 10:10	KLW	5/23/2016 17:20	MRP	
Cobalt	0.0184	mg/L	0.00200	0.0100	5/12/2016 10:10	KLW	5/23/2016 17:20	MRP	
Arsenic	<0.00500	mg/L	0.00100	0.00500	5/12/2016 10:10	KLW	5/23/2016 17:20	MRP	
Selenium	<0.0100	mg/L	0.00200	0.0100	5/12/2016 10:10	KLW	5/23/2016 17:20	MRP	
Molybdenum	<0.0100	mg/L	0.00200	0.0100	5/12/2016 10:10	KLW	5/23/2016 17:20	MRP	
Cadmium	0.000156J	mg/L	0.000100	0.00100	5/12/2016 10:10	KLW	5/23/2016 17:20	MRP	
Antimony	<0.00300	mg/L	0.000600	0.00300	5/12/2016 10:10	KLW	5/23/2016 17:20	MRP	
Barium	0.0663	mg/L	0.00200	0.0100	5/12/2016 10:10	KLW	5/23/2016 17:20	MRP	
Thallium	<0.00100	mg/L	0.000200	0.00100	5/12/2016 10:10	KLW	5/23/2016 17:20	MRP	
Lead	<0.00500	mg/L	0.00100	0.00500	5/12/2016 10:10	KLW	5/23/2016 17:20	MRP	

Analysis Desc: EPA 300		Analytical Method: EPA 300							
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TOTAL NUTRIENTS							5/18/2016 09:27	LBB	
Sulfate	0.6766J	mg/L	0.3000	1.00			5/18/2016 09:27	LBB	
Chloride	1.90	mg/L	0.0400	0.2500			5/18/2016 09:27	LBB	
Fluoride	<0.3000	mg/L	0.0100	0.3000			5/18/2016 09:27	LBB	

Analysis Desc: SM 2540C		Analytical Method: SM 2540C							
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WET CHEMISTRY							5/11/2016 14:40	KLW	
TDS	44	mg/L	25	25			5/11/2016 14:40	KLW	

Report ID: 103299 - 5033325
 GPC Report Page 8 of 21

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ANALYTICAL RESULTS

Workorder: 103299 CCR - Scherer AP

Lab ID:	103299007	Date Received:	5/11/2016 08:45
Sample ID:	SGWA-2	Date Collected:	5/10/2016 16:18
Sample Description	Plant Scherer Ash Pond	Matrix:	Water
Location	Scherer AP		

Parameters	Results	Units	MDL	RL	Prepared	By	Analyzed	By	Qual
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Analysis Desc: EPA 6010D		Preparation Method: EPA 3005A							
		Analytical Method: EPA 6010D							

INORGANICS					5/17/2016 10:30	KLW	5/17/2016 15:23	HAM	
Calcium	10.1	mg/L	0.100	0.500	5/17/2016 10:30	KLW	5/17/2016 15:23	HAM	

Analysis Desc: EPA 7470A		Preparation Method: EPA 7470A							
		Analytical Method: EPA 7470A							

TOTAL METALS					5/13/2016 06:14	WCM	5/13/2016 13:01	WCM	
Mercury	<0.000500	mg/L	0.000250	0.000500	5/13/2016 06:14	WCM	5/13/2016 13:01	WCM	

Analysis Desc: EPA 6020B		Preparation Method: EPA 3005A							
		Analytical Method: EPA 6020B							

Lithium	<0.0500	mg/L	0.0100	0.0500	5/12/2016 10:10	KLW	5/23/2016 17:24	MRP	
Beryllium	<0.00300	mg/L	0.000600	0.00300	5/12/2016 10:10	KLW	5/23/2016 17:24	MRP	
Boron	<0.100	mg/L	0.0200	0.100	5/12/2016 10:10	KLW	5/23/2016 17:24	MRP	
Chromium	0.0142	mg/L	0.00200	0.0100	5/12/2016 10:10	KLW	5/23/2016 17:24	MRP	
Cobalt	<0.0100	mg/L	0.00200	0.0100	5/12/2016 10:10	KLW	5/23/2016 17:24	MRP	
Arsenic	<0.00500	mg/L	0.00100	0.00500	5/12/2016 10:10	KLW	5/23/2016 17:24	MRP	
Selenium	<0.0100	mg/L	0.00200	0.0100	5/12/2016 10:10	KLW	5/23/2016 17:24	MRP	
Molybdenum	<0.0100	mg/L	0.00200	0.0100	5/12/2016 10:10	KLW	5/23/2016 17:24	MRP	
Cadmium	<0.00100	mg/L	0.000100	0.00100	5/12/2016 10:10	KLW	5/23/2016 17:24	MRP	
Antimony	<0.00300	mg/L	0.000600	0.00300	5/12/2016 10:10	KLW	5/23/2016 17:24	MRP	
Barium	0.0409	mg/L	0.00200	0.0100	5/12/2016 10:10	KLW	5/23/2016 17:24	MRP	
Thallium	<0.00100	mg/L	0.000200	0.00100	5/12/2016 10:10	KLW	5/23/2016 17:24	MRP	
Lead	<0.00500	mg/L	0.00100	0.00500	5/12/2016 10:10	KLW	5/23/2016 17:24	MRP	

Analysis Desc: EPA 300		Analytical Method: EPA 300							
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TOTAL NUTRIENTS							5/18/2016 09:57	LBB	
Sulfate	0.4053J	mg/L	0.3000	1.00			5/18/2016 09:57	LBB	
Chloride	1.51	mg/L	0.0400	0.2500			5/18/2016 09:57	LBB	
Fluoride	0.0537J	mg/L	0.0100	0.3000			5/18/2016 09:57	LBB	

Analysis Desc: SM 2540C		Analytical Method: SM 2540C							
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WET CHEMISTRY							5/11/2016 14:40	KLW	
TDS	96	mg/L	25	25			5/11/2016 14:40	KLW	

Report ID: 103299 - 5033325
 GPC Report Page 9 of 21

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ANALYTICAL RESULTS QUALIFIERS

Workorder: 103299 CCR - Scherer AP

PARAMETER QUALIFIERS

ND	None detected at the laboratory Method Detection Limit
MDL	Method Detection Limit
RL	Reporting Limit
J	The reported value is between the laboratory method detection limit and the laboratory reporting limit

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QUALITY CONTROL DATA

Workorder: 103299 CCR - Scherer AP

QC Batch: GRAV/2865 Analysis Method: SM 2540C
 QC Batch Method: SM 2540C
 Associated Lab Samples: 103299001 103299002 103299003 103299004 103299005 103299006
 103299007

METHOD BLANK: 105811

Parameter	Units	Blank Result	Reporting Limit Qualifiers
WET CHEMISTRY			
TDS	mg/L	<25	25

LABORATORY CONTROL SAMPLE: 105814

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits Qualifiers
WET CHEMISTRY					
TDS	mg/L	241	230	95.4	90-110

SAMPLE DUPLICATE: 105812 Original: 103259001

Parameter	Units	Original Result	DUP Result	RPD	Max RPD Qualifiers
WET CHEMISTRY					
TDS	mg/L	189	200	5.7	20

SAMPLE DUPLICATE: 105813 Original: 103299006

Parameter	Units	Original Result	DUP Result	RPD	Max RPD Qualifiers
WET CHEMISTRY					
TDS	mg/L	44	46	4.4	20

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QUALITY CONTROL DATA

Workorder: 103299 CCR - Scherer AP

QC Batch: DIGM/4301 Analysis Method: EPA 6010D
 QC Batch Method: EPA 3005A
 Associated Lab Samples: 103299001 103299002 103299003 103299004 103299005 103299006
 103299007

METHOD BLANK: 105822

Parameter	Units	Blank Result	Reporting Limit Qualifiers
INORGANICS			
Calcium	mg/L	<0.500	0.500

LABORATORY CONTROL SAMPLE: 105823

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits Qualifiers
INORGANICS					
Calcium	mg/L	5	5.11	102	80-120

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 105824 105825 Original: 103299007

Parameter	Units	Original Result	Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limit	RPD	Max RPD	Qualifiers
INORGANICS											
Calcium	mg/L	10.1	5	15.5	15.2	107	101	75-125	5.8	20	

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QUALITY CONTROL DATA

Workorder: 103299 CCR - Scherer AP

QC Batch: DIGM/4302 Analysis Method: EPA 6020B
 QC Batch Method: EPA 3005A
 Associated Lab Samples: 103299001 103299002 103299003 103299004 103299005 103299006
 103299007

METHOD BLANK: 105833

Parameter	Units	Blank Result	Reporting Limit Qualifiers
TOTAL METALS			
Lithium	mg/L	<0.0500	0.0500
Beryllium	mg/L	<0.00300	0.00300
Boron	mg/L	<0.100	0.100
Chromium	mg/L	<0.0100	0.0100
Cobalt	mg/L	<0.0100	0.0100
Arsenic	mg/L	<0.00500	0.00500
Selenium	mg/L	<0.0100	0.0100
Molybdenum	mg/L	<0.0100	0.0100
Cadmium	mg/L	<0.00100	0.00100
Antimony	mg/L	<0.00300	0.00300
Barium	mg/L	<0.0100	0.0100
Thallium	mg/L	<0.00100	0.00100
Lead	mg/L	<0.00500	0.00500

LABORATORY CONTROL SAMPLE: 105834

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits Qualifiers
TOTAL METALS					
Lithium	mg/L	0.2	0.207	103	80-120
Beryllium	mg/L	0.1	0.101	101	80-120
Boron	mg/L	0.1	0.102	102	80-120
Chromium	mg/L	0.1	0.104	104	80-120
Cobalt	mg/L	0.1	0.104	104	80-120
Arsenic	mg/L	0.1	0.102	102	80-120
Selenium	mg/L	0.1	0.103	103	80-120
Molybdenum	mg/L	0.1	0.102	102	80-120
Cadmium	mg/L	0.1	0.100	100	80-120
Antimony	mg/L	0.1	0.103	103	80-120
Barium	mg/L	0.1	0.107	107	80-120
Thallium	mg/L	0.1	0.0936	93.6	80-120
Lead	mg/L	0.1	0.102	102	80-120

Report ID: 103299 - 5033325
 GPC Report Page 13 of 21

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QUALITY CONTROL DATA

Workorder: 103299 CCR - Scherer AP

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 105835 105836 Original: 103259002

Parameter	Units	Original Result	Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limit	RPD	Max RPD	Qualifiers
TOTAL METALS											
Lithium	mg/L	0.00216	0.2	0.219	0.230	108	114	75-125	5.4	20	
Beryllium	mg/L	7e-006	0.1	0.105	0.111	105	110	75-125	4.7	20	
Boron	mg/L	0.00282	0.1	0.112	0.116	109	113	75-125	3.6	20	
Chromium	mg/L	0.00036	0.1	0.105	0.108	105	108	75-125	2.8	20	
Cobalt	mg/L	0.00239	0.1	0.103	0.107	101	104	75-125	2.9	20	
Arsenic	mg/L	0.00347	0.1	0.107	0.110	104	106	75-125	1.9	20	
Selenium	mg/L	0.00046	0.1	0.106	0.104	105	104	75-125	0.96	20	
Molybdenum	mg/L	0.00148	0.1	0.110	0.114	109	113	75-125	3.6	20	
Cadmium	mg/L	3e-006	0.1	0.104	0.107	104	107	75-125	2.8	20	
Antimony	mg/L	0.00454	0.1	0.112	0.115	107	110	75-125	2.8	20	
Barium	mg/L	0.0347	0.1	0.146	0.148	111	113	75-125	1.8	20	
Thallium	mg/L	0.00035	0.1	0.0971	0.0998	96.7	99.4	75-125	2.8	20	
Lead	mg/L	9.8e-005	0.1	0.104	0.107	104	107	75-125	2.8	20	

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QUALITY CONTROL DATA

Workorder: 103299 CCR - Scherer AP

QC Batch: HGPR/1653 Analysis Method: EPA 7470A
 QC Batch Method: EPA 7470A
 Associated Lab Samples: 103299001 103299002 103299003 103299004 103299005 103299006
 103299007

METHOD BLANK: 105891

Parameter	Units	Blank Result	Reporting Limit Qualifiers
TOTAL METALS			
Mercury	mg/L	<0.000500	0.000500

LABORATORY CONTROL SAMPLE: 105887

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits Qualifiers
TOTAL METALS					
Mercury	mg/L	0.0122	0.0126	103	80-120

LABORATORY CONTROL SAMPLE: 105892

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits Qualifiers
TOTAL METALS					
Mercury	mg/L	0.002	0.00201	100	80-120

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 105888 105889 Original: 103259001

Parameter	Units	Original Result	Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limit	Max RPD	Max RPD	Qualifiers
TOTAL METALS											
Mercury	mg/L	0	0.002	0.00210	0.00206	105	103	80-120	1.9	20	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 105893 105894 Original: 103299001

Parameter	Units	Original Result	Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limit	Max RPD	Max RPD	Qualifiers
TOTAL METALS											
Mercury	mg/L	0	0.002	0.00199	0.00199	100	100	80-120	0	20	

Report ID: 103299 - 5033325
 GPC Report Page 15 of 21

CERTIFICATE OF ANALYSIS

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QUALITY CONTROL DATA

Workorder: 103299 CCR - Scherer AP

SAMPLE DUPLICATE: 105890

Original: 103259002

Parameter	Units	Original Result	DUP Result	RPD	Max RPD Qualifiers
TOTAL METALS					
Mercury	mg/L	<0.000500	<0.000500	0	20

SAMPLE DUPLICATE: 105895

Original: 103299002

Parameter	Units	Original Result	DUP Result	RPD	Max RPD Qualifiers
TOTAL METALS					
Mercury	mg/L	<0.000500	<0.000500	0	20

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QUALITY CONTROL DATA

Workorder: 103299 CCR - Scherer AP

QC Batch: IC/3028 Analysis Method: EPA 300
 QC Batch Method: EPA 300
 Associated Lab Samples: 103299001 103299002 103299003 103299004 103299005 103299006
 103299007

METHOD BLANK: 105972

Parameter	Units	Blank Result	Reporting Limit Qualifiers
Chloride	mg/L	<0.2500	0.2500
Sulfate	mg/L	<1.00	1.00
Fluoride	mg/L	<0.3000	0.3000

METHOD BLANK: 106232

Parameter	Units	Blank Result	Reporting Limit Qualifiers
Chloride	mg/L	<0.2500	0.2500
Sulfate	mg/L	<1.00	1.00
Fluoride	mg/L	<0.3000	0.3000

LABORATORY CONTROL SAMPLE: 105965

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits Qualifiers
Chloride	mg/L	11.3	11.5	102	90-110
Fluoride	mg/L	6.83	6.71	98.3	90-110

LABORATORY CONTROL SAMPLE: 105973

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits Qualifiers
Chloride	mg/L	0.5	0.4810	96.2	90-110
Sulfate	mg/L	5	4.89	97.9	90-110
Fluoride	mg/L	0.5	0.5118	102	90-110

LABORATORY CONTROL SAMPLE: 106233

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits Qualifiers
Chloride	mg/L	0.5	0.4604	92.1	90-110
Sulfate	mg/L	5	4.84	96.9	90-110
Fluoride	mg/L	0.5	0.5050	101	90-110

Report ID: 103299 - 5033325
 GPC Report Page 17 of 21

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QUALITY CONTROL DATA

Workorder: 103299 CCR - Scherer AP

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 105970 105971 Original: 103300003

Parameter	Units	Original Result	Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limit	RPD	Max RPD	Qualifiers
Sulfate	mg/L	0.0144	10	10.0	10.0	100	100	90-110	0	10	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 105974 105975 Original: 103330003

Parameter	Units	Original Result	Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limit	RPD	Max RPD	Qualifiers
Chloride	mg/L	2.02	1	3.02	3.01	99.6	98.7	90-110	0.91	10	

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Workorder: 103299 CCR - Scherer AP

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
103299001	SGWA-3	SM 2540C	GRAV/2865		
103299002	SGWA-25	SM 2540C	GRAV/2865		
103299003	SGWA-24	SM 2540C	GRAV/2865		
103299004	SGWA-5	SM 2540C	GRAV/2865		
103299005	DUP-5	SM 2540C	GRAV/2865		
103299006	SGWA-1	SM 2540C	GRAV/2865		
103299007	SGWA-2	SM 2540C	GRAV/2865		
103299001	SGWA-3	EPA 3005A	DIGM/4301	EPA 6010D	ICP/5007
103299002	SGWA-25	EPA 3005A	DIGM/4301	EPA 6010D	ICP/5007
103299003	SGWA-24	EPA 3005A	DIGM/4301	EPA 6010D	ICP/5007
103299004	SGWA-5	EPA 3005A	DIGM/4301	EPA 6010D	ICP/5007
103299005	DUP-5	EPA 3005A	DIGM/4301	EPA 6010D	ICP/5007
103299006	SGWA-1	EPA 3005A	DIGM/4301	EPA 6010D	ICP/5007
103299007	SGWA-2	EPA 3005A	DIGM/4301	EPA 6010D	ICP/5007
103299001	SGWA-3	EPA 3005A	DIGM/4302	EPA 6020B	ICPM/1067
103299002	SGWA-25	EPA 3005A	DIGM/4302	EPA 6020B	ICPM/1067
103299003	SGWA-24	EPA 3005A	DIGM/4302	EPA 6020B	ICPM/1067
103299004	SGWA-5	EPA 3005A	DIGM/4302	EPA 6020B	ICPM/1067
103299005	DUP-5	EPA 3005A	DIGM/4302	EPA 6020B	ICPM/1067
103299006	SGWA-1	EPA 3005A	DIGM/4302	EPA 6020B	ICPM/1067
103299007	SGWA-2	EPA 3005A	DIGM/4302	EPA 6020B	ICPM/1067
103299001	SGWA-3	EPA 7470A	HGPR/1653	EPA 7470A	CVAA/1838
103299002	SGWA-25	EPA 7470A	HGPR/1653	EPA 7470A	CVAA/1838
103299003	SGWA-24	EPA 7470A	HGPR/1653	EPA 7470A	CVAA/1838
103299004	SGWA-5	EPA 7470A	HGPR/1653	EPA 7470A	CVAA/1838
103299005	DUP-5	EPA 7470A	HGPR/1653	EPA 7470A	CVAA/1838
103299006	SGWA-1	EPA 7470A	HGPR/1653	EPA 7470A	CVAA/1838
103299007	SGWA-2	EPA 7470A	HGPR/1653	EPA 7470A	CVAA/1838
103299001	SGWA-3	EPA 300	IC/3028		

Report ID: 103299 - 5033325
 GPC Report Page 19 of 21

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Workorder: 103299 CCR - Scherer AP

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
103299002	SGWA-25	EPA 300	IC/3028		
103299003	SGWA-24	EPA 300	IC/3028		
103299004	SGWA-5	EPA 300	IC/3028		
103299005	DUP-5	EPA 300	IC/3028		
103299006	SGWA-1	EPA 300	IC/3028		
103299007	SGWA-2	EPA 300	IC/3028		

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LABORATORY CERTIFICATIONS

Workorder: 103299 CCR - Scherer AP

Certification Program	Certification Number
NELAC	E57554

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Georgia Power Environmental Laboratory
 NELAP Certification #E57554
 2480 Maner Road, BIN 39110
 Atlanta, Georgia 30339
 Phone: (404) 799-2100
 Company: 8-530-2100

ANALYSIS REQUEST AND CHAIN OF CUSTODY RECORD

LAB USE ONLY

Work Order No. 103299

Reviewed By: ASJ/SJ/ILC

Page 1 of 1

Company: ¹ Southern Company Services
 Report To Joju Abraham
 Address: ² 241 Ralph McGill Blvd SE B10185
Atlanta, GA 30308
 Phone/Fax: ³ 404-506-7239
 Contact: ⁴ Joju Abraham
 Project Location: ⁵ Plant Scherer
 Account Number: ⁶ _____
 Special Scherer AP CCR GW
 Instructions: ⁷ _____

Sample Shipment Date: ⁸ 5/11/16

Sample Received Date: ⁹ _____

Sampled By: ¹⁰ R. Hilliard

¹² Standard Turnaround Time

of Business Days (Rush)
 (Must be cleared through Env. Lab. Prior to shipment)

LAB USE ONLY ¹³ LAB ID	Sample Number ¹⁴	Collection ¹⁵		Sample Description ¹⁶	Sample Type ¹⁷	Matrix ¹⁸	No. of Containers ¹⁹	ANALYSIS REQUESTED ²¹			PRESERVATIVE ²⁰			Sample Type Key: ²² G-Grab C-Other C-Composite
		Date	Time					HNO3	Ice	HNO3	N	N		
103299001 ↓ 2	SAWA-3 SAWA-25	5/10/16	09:47	Ash Pond - up gradient	GW	GW	3	1	1	1				
		5/10/16	15:34	Ash Pond - up gradient	GW	GW	3	1	1	1				

Matrix Key: ²³
 O-Oil S-Solid SL-Sludge W-Wipe
 SW-Surface Water GW-Ground Water
 WW-Waste Water DW-Drinking Water

Preservative Key: ²⁴
 H-Hydrochloric Acid N-Nitric Acid
 S-Sulfuric Acid SH-Sodium Hydroxide
 SB-Sodium Bisulfate P-Phosphoric Acid
 ST-Sodium Thiosulfate I-Ice U-Unpreserved

LAB USE ONLY ²⁵
 Comments

LAB USE ONLY: Sample Receipt Information ²⁶			
Relinquished by: ²⁶ <u>[Signature]</u>	Date/Time	<u>5/11/16</u>	<u>706</u>
Received by: ²⁷ <u>[Signature]</u>	Date/Time	<u>5/11/16</u>	<u>0726</u>
Relinquished by: <u>[Signature]</u>	Date/Time	<u>5/11/16</u>	<u>0841</u>
Received by: <u>[Signature]</u>	Date/Time	<u>5-11-16</u>	<u>0845</u>

3.8°C (66°F) (JA-4P) ice, cooler, cooler in good condition, seal intact, pH=2

**ANALYSIS REQUEST AND
CHAIN OF CUSTODY RECORD**

Georgia Power Environmental Laboratory
 NELAP Certification #E57554
 2480 Maner Road, BIN 39110
 Atlanta, Georgia 30339
 Phone: (404) 799-2100
 Company: 8-530-2100

**LAB
USE
ONLY**

Work Order No. 103299
 Reviewed By: ALJ S/11/16
 Page 1 of 1

Sample Shipment Date:⁸ 5/11/16 ¹² Standard Turnaround Time
 Sample Received Date:⁹ _____ # of Business Days (Rush) _____
 Sampled By:¹⁰ Charles Watson (Must be cleared through Env. Lab. Prior to shipment)

Signature
 Authorization to subcontractor analysis will be assumed acceptable by customer unless stated otherwise.
 Southern Company Services
 Joju Abraham
 241 Ralph McGill Blvd SE B10185
 Atlanta, GA 30308
 404-506-7239
 Joju Abraham
 Plant Scherer
 Project Location:⁵
 Account Number:⁶
 Special
 Instructions:⁷ Scherer AP CCR GW

PRESERVATIVE ²⁰		ANALYSIS REQUESTED ²¹		Sample Type Key: ²²	
HNO3	Ice	HNO3	N	G-Grub	O-Other
N	I	N	N	S-Solid	W-Wipe
				SW-Surface Water	GW-Ground Water
				WW-Waste Water	DW-Drinking Water

LAB USE ONLY ¹³	LAB ID	Sample Number ¹⁴	Collection ¹⁵	Sample Description ¹⁶	Sample Type ¹⁷	Matrix ¹⁸	No. of Containers ¹⁹
	103299003	SGWA-24	5/10/16 921	Ash Pond	G	GW	3
	4	SGWA-5	5/10/16 1146	Ash Pond	G	GW	3
	5	OUP-5	5/10/16	Ash Pond	G	GW	3

PRESERVATIVE KEY: ²³				ANALYSIS REQUESTED ²¹				Sample Type Key: ²²	
O-Oil	S-Solid	SW-Surface Water	WW-Waste Water	HNO3	Ice	HNO3	N	G-Grub	O-Other
SL-Sludge	W-Wipe	GW-Ground Water	DW-Drinking Water	I	N	N	N	S-Solid	W-Wipe
								SW-Surface Water	GW-Ground Water
								WW-Waste Water	DW-Drinking Water

PRESERVATIVE KEY: ²⁴				LAB USE ONLY ²⁵					
H-Hydrochloric Acid	N-Nitric Acid	S-Sulfuric Acid	SH-Sodium Hydroxide	SB-Sodium Bisulfate	P-Phosphoric Acid	ST-Sodium Thiosulfate	L-Isob	U-Uppreserved	Comments

LAB USE ONLY: Sample Receipt Information ²⁶

Relinquished by:²⁶ Charles Watson Date/Time 5/11/16 7:06
 Received by:²⁷ Joju Abraham Date/Time 5/11/16 10:48
 Relinquished by: Joju Abraham Date/Time 5/11/16 10:48
 Received by: Joju Abraham Date/Time 5-11-16 10:515

Georgia Power Environmental Laboratory
 NELAP Certification #E57554
 2480 Maner Road, BIN 39110
 Atlanta, Georgia 30339
 Phone: (404) 799-2100
 Company: 8-530-2100

ANALYSIS REQUEST AND CHAIN OF CUSTODY RECORD

**LAB
USE
ONLY**

Work Order No. 103299
 Reviewed By: AY 5/11/16

Page 1 of 1

Sample Shipment Date:⁸ _____
 Sample Received Date:⁹ _____

Sampled By:¹⁰ Rachel Samuels
 (Must be cleared through Env. Lab. Prior to shipment)

Company:¹ Southern Company Services
 Report To Joju Abraham
 Address:² 241 Ralph McGill Blvd SE B10185
Atlanta, GA 30308
 Phone/Fax:³ 404-506-7239
 Contact:⁴ Joju Abraham
 Project Location:⁵ Plant Scherer
 Account Number:⁶ _____
 Special _____
 Instructions:⁷ Scherer AP CCR GW

¹² Standard Turnaround Time

of Business Days (Rush)

LAB USE ONLY LAB ID	Sample Number ¹⁴	Collection ¹⁵		Sample Description ¹⁶	Sample Type	Matrix	No. of Containers	ANALYSIS REQUESTED ²¹			Sample Type Key: ²² G-Grab O-Other C-Composite				
		Date	Time					Ice	HNO3	N		PRESERVATIVE ²⁰			
												HNO3	N	Solid	Wipe
<u>103299006</u>	<u>SGWA-1</u>	<u>5/10/16</u>	<u>1026</u>	<u>Plant Scherer Ash Pond</u>	<u>G</u>	<u>GW</u>	<u>3</u>	<u>1</u>	<u>1</u>	<u>1</u>					
<u>7</u>	<u>SGWA-2</u>	<u>5/10/16</u>	<u>1618</u>	<u>Plant Scherer Ash Pond</u>	<u>G</u>	<u>GW</u>	<u>3</u>	<u>1</u>	<u>1</u>	<u>1</u>					
					EPA 6020 & EPA 7470	Metals app. III & IV	CI, F, SO4 EPA 300	TDS SM2540C	Radium 226 & 228	GA Tech					
					Preservative Key: ²⁴ H-Hydrochloric Acid N-Nitric Acid S-Sulfuric Acid SH-Sodium Hydroxide SB-Sodium Bisulfate P-Phosphoric Acid ST-Sodium Thiosulfate I-Ice U-Unpreserved										
					LAB USE ONLY ²⁵ Comments										

LAB USE ONLY: Sample Receipt Information²⁶

Relinquished by:²⁶ Rachel Samuels Date/Time: 5/10/16 706 35°C (GPEL-IR-4P) ice, cooler, cooler in good condition, seal intact, PHL2

Received by:²⁷ Joju Abraham Date/Time: 5/11/16 0706

Relinquished by: Joju Abraham Date/Time: 5/11/16 0841

Received by: Rachel Samuels Date/Time: 5-11-16 0845

Sample Receipt Checklist



Client: Scherer
 Workorder No.: 103299
 Carrier: COURIER

of Samples: 7
 Tracking No:

Question	Answer	Comment
Radioactivity wasn't checked or is <= background as measured by a survey meter	True	
Custody seals were present on cooler	False	
Custody seals were present on sample	False	
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	3.8
COC is present	True	
COC is filled out in ink and is legible	True	Overwrite present on sample number field.
COC is filled out with pertinent information	True	
The field sampler's name is on the COC	True	
Sample containers have legible labels	True	
Information on the sample label agrees with information on the COC	True	
Samples are received within holding times	True	
Containers are not broken or leaking	True	
Sample collection date/times are present	True	
Appropriate sample containers are used	True	
Sample bottles are completely filled	True	
Sample preservation is checked	True	
Sample preservation is acceptable	True	
There is sufficient sample volume for all requested analyses	True	
Containers requiring zero headspace have no headspace or the bubble is < 6mm (1/4 inch)	True	
Multiphasic samples are not present	True	
Samples do not require splitting or compositing	True	

Receiving Narrative:

June 2, 2016

Joju Abraham
Southern Company Services
Earth Sciences & Env Eng
42 Inverness Center Parkway
Birmingham, AL 35242

RE: Workorder: 103329 CCR - Scherer AP

Dear Joju Abraham:

The Environmental Laboratory has completed the analysis of your samples and reports the results on the attached pages. Our laboratory maintains current NELAC accreditation for those analytes listed under the scope of accreditation. Analytes not listed in this scope are currently not maintained under an accreditation program. The analytes of this report that are listed under our NELAC scope of accreditation meet all requirements of the NELAC standards, unless otherwise noted by data qualifiers. Internal clients can view the scope and effective dates of our accreditation at:

<http://environmental.southernco.com/gpc/environmental-lab/chem.html>

External clients can receive a copy of our scope of accreditation by contacting the laboratory.

All results relate only to the contents of the samples submitted. Samples will be disposed of after 30 days unless otherwise instructed. This report should only be reproduced in full with all associated records. 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.

If you have any questions or comments, contact your Program Manager:

Maria Padilla

mrpadill@southernco.com

(404) 799-2188 / 8-530-2188

Respectfully submitted,



R. S. Dickerson
rsdicker@southernco.com
QA/QC Specialist

Report ID: 103329 - 5032797
GPC Report Page 1 of 35

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SAMPLE SUMMARY

Workorder: 103329 CCR - Scherer AP

Lab ID	Sample ID	Analysis Request Number	Matrix	Date Collected	Date Received
103329001	SGWC-7	N/A	Water	5/11/2016 08:28	5/12/2016 08:30
103329002	EQB-5	N/A	Water	5/11/2016 10:03	5/12/2016 08:30
103329003	SGWC-9	N/A	Water	5/11/2016 11:31	5/12/2016 08:30
103329004	SGWC-12	N/A	Water	5/11/2016 14:53	5/12/2016 08:30
103329005	Dup-6	N/A	Water	5/11/2016 00:00	5/12/2016 08:30
103329006	SGWC-6	N/A	Water	5/11/2016 09:02	5/12/2016 08:30
103329007	SGWC-8	N/A	Water	5/11/2016 11:40	5/12/2016 08:30
103329008	SGWC-11	N/A	Water	5/11/2016 14:26	5/12/2016 08:30
103329009	Field Blank-5	N/A	Water	5/11/2016 11:56	5/12/2016 08:30
103329010	SGWA-4	N/A	Water	5/11/2016 10:06	5/12/2016 08:30
103329011	SGWC-10	N/A	Water	5/11/2016 15:55	5/12/2016 08:30

Report ID: 103329 - 5032797
GPC Report Page 2 of 35

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ANALYTICAL RESULTS

Workorder: 103329 CCR - Scherer AP

Lab ID:	103329001	Date Received:	5/12/2016 08:30
Sample ID:	SGWC-7	Date Collected:	5/11/2016 08:28
Sample Description	Ash Pond-Down Gradient	Matrix:	Water
Location	Scherer AP		

Parameters	Results	Units	MDL	RL	Prepared	By	Analyzed	By	Qual
Analysis Desc: EPA 6010D		Preparation Method: EPA 3005A							
		Analytical Method: EPA 6010D							
INORGANICS					5/13/2016 09:50	KLW	5/16/2016 11:08	HAM	
Calcium	27.2	mg/L	0.100	0.500	5/13/2016 09:50	KLW	5/16/2016 11:08	HAM	
Analysis Desc: EPA 6020B		Preparation Method: EPA 3005A							
		Analytical Method: EPA 6020B							
TOTAL METALS					5/19/2016 10:00	KLW	5/20/2016 21:55	ELS	
Analysis Desc: EPA 7470A		Preparation Method: EPA 7470A							
		Analytical Method: EPA 7470A							
Mercury	<0.000500	mg/L	0.000250	0.000500	5/16/2016 06:28	WCM	5/16/2016 13:07	WCM	
Analysis Desc: EPA 6020B		Preparation Method: EPA 3005A							
		Analytical Method: EPA 6020B							
Lithium	<0.0500	mg/L	0.0100	0.0500	5/19/2016 10:00	KLW	5/20/2016 21:55	ELS	
Beryllium	<0.00300	mg/L	0.000600	0.00300	5/19/2016 10:00	KLW	5/20/2016 21:55	ELS	
Boron	0.0359J	mg/L	0.0200	0.100	5/19/2016 10:00	KLW	5/20/2016 21:55	ELS	
Chromium	<0.0100	mg/L	0.00200	0.0100	5/19/2016 10:00	KLW	5/20/2016 21:55	ELS	
Cobalt	0.0116	mg/L	0.00200	0.0100	5/19/2016 10:00	KLW	5/20/2016 21:55	ELS	
Arsenic	<0.00500	mg/L	0.00100	0.00500	5/19/2016 10:00	KLW	5/20/2016 21:55	ELS	
Selenium	<0.0100	mg/L	0.00200	0.0100	5/19/2016 10:00	KLW	5/20/2016 21:55	ELS	
Molybdenum	0.00343J	mg/L	0.00200	0.0100	5/19/2016 10:00	KLW	5/20/2016 21:55	ELS	
Cadmium	<0.00100	mg/L	0.000100	0.00100	5/19/2016 10:00	KLW	5/20/2016 21:55	ELS	
Antimony	<0.00300	mg/L	0.000600	0.00300	5/19/2016 10:00	KLW	5/20/2016 21:55	ELS	
Barium	0.295	mg/L	0.00400	0.0200	5/19/2016 10:00	KLW	5/21/2016 09:20	MRP	
Thallium	<0.00100	mg/L	0.000200	0.00100	5/19/2016 10:00	KLW	5/20/2016 21:55	ELS	
Lead	<0.00500	mg/L	0.00100	0.00500	5/19/2016 10:00	KLW	5/20/2016 21:55	ELS	
Analysis Desc: EPA 300		Analytical Method: EPA 300							
TOTAL NUTRIENTS							5/19/2016 09:19	LBB	
Sulfate	21.6	mg/L	0.3000	1.00			5/19/2016 03:34	LBB	
Chloride	9.65	mg/L	0.2000	1.25			5/19/2016 09:19	LBB	
Fluoride	0.2450J	mg/L	0.0100	0.3000			5/19/2016 03:34	LBB	
Analysis Desc: SM 2540C		Analytical Method: SM 2540C							
WET CHEMISTRY							5/13/2016 14:50	KLW	

Report ID: 103329 - 5032797
 GPC Report Page 3 of 35

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ANALYTICAL RESULTS

Workorder: 103329 CCR - Scherer AP

Lab ID:	103329001	Date Received:	5/12/2016 08:30
Sample ID:	SGWC-7	Date Collected:	5/11/2016 08:28
Sample Description	Ash Pond-Down Gradient	Matrix:	Water
Location	Scherer AP		

Parameters	Results	Units	MDL	RL	Prepared	By	Analyzed	By	Qual
TDS	222	mg/L	25	25			5/13/2016 14:50	KLW	

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ANALYTICAL RESULTS

Workorder: 103329 CCR - Scherer AP

Lab ID:	103329002	Date Received:	5/12/2016 08:30
Sample ID:	EQB-5	Date Collected:	5/11/2016 10:03
Sample Description	Equipment Blank	Matrix:	Water
Location	Scherer AP		

Parameters	Results	Units	MDL	RL	Prepared	By	Analyzed	By	Qual
Analysis Desc: EPA 6010D		Preparation Method: EPA 3005A							
		Analytical Method: EPA 6010D							
INORGANICS					5/13/2016 09:50	KLW	5/16/2016 11:14	HAM	
Calcium	0.215J	mg/L	0.100	0.500	5/13/2016 09:50	KLW	5/16/2016 11:14	HAM	
Analysis Desc: EPA 6020B		Preparation Method: EPA 3005A							
		Analytical Method: EPA 6020B							
TOTAL METALS					5/19/2016 10:00	KLW	5/20/2016 22:00	ELS	
Analysis Desc: EPA 7470A		Preparation Method: EPA 7470A							
		Analytical Method: EPA 7470A							
Mercury	<0.000500	mg/L	0.000250	0.000500	5/16/2016 06:28	WCM	5/16/2016 13:10	WCM	
Analysis Desc: EPA 6020B		Preparation Method: EPA 3005A							
		Analytical Method: EPA 6020B							
Lithium	<0.0500	mg/L	0.0100	0.0500	5/19/2016 10:00	KLW	5/20/2016 22:00	ELS	
Beryllium	<0.00300	mg/L	0.000600	0.00300	5/19/2016 10:00	KLW	5/20/2016 22:00	ELS	
Boron	<0.100	mg/L	0.0200	0.100	5/19/2016 10:00	KLW	5/20/2016 22:00	ELS	
Chromium	<0.0100	mg/L	0.00200	0.0100	5/19/2016 10:00	KLW	5/20/2016 22:00	ELS	
Cobalt	<0.0100	mg/L	0.00200	0.0100	5/19/2016 10:00	KLW	5/20/2016 22:00	ELS	
Arsenic	<0.00500	mg/L	0.00100	0.00500	5/19/2016 10:00	KLW	5/20/2016 22:00	ELS	
Selenium	<0.0100	mg/L	0.00200	0.0100	5/19/2016 10:00	KLW	5/20/2016 22:00	ELS	
Molybdenum	<0.0100	mg/L	0.00200	0.0100	5/19/2016 10:00	KLW	5/20/2016 22:00	ELS	
Cadmium	<0.00100	mg/L	0.000100	0.00100	5/19/2016 10:00	KLW	5/20/2016 22:00	ELS	
Antimony	<0.00300	mg/L	0.000600	0.00300	5/19/2016 10:00	KLW	5/20/2016 22:00	ELS	
Barium	<0.0100	mg/L	0.00200	0.0100	5/19/2016 10:00	KLW	5/20/2016 22:00	ELS	
Thallium	<0.00100	mg/L	0.000200	0.00100	5/19/2016 10:00	KLW	5/20/2016 22:00	ELS	
Lead	<0.00500	mg/L	0.00100	0.00500	5/19/2016 10:00	KLW	5/20/2016 22:00	ELS	
Analysis Desc: EPA 300		Analytical Method: EPA 300							
TOTAL NUTRIENTS							5/19/2016 04:12	LBB	
Sulfate	<1.00	mg/L	0.3000	1.00			5/19/2016 04:12	LBB	
Chloride	<0.2500	mg/L	0.0400	0.2500			5/19/2016 04:12	LBB	
Fluoride	<0.3000	mg/L	0.0100	0.3000			5/19/2016 04:12	LBB	
Analysis Desc: SM 2540C		Analytical Method: SM 2540C							
WET CHEMISTRY							5/13/2016 14:50	KLW	

Report ID: 103329 - 5032797
 GPC Report Page 5 of 35

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ANALYTICAL RESULTS

Workorder: 103329 CCR - Scherer AP

Lab ID:	103329002	Date Received:	5/12/2016 08:30
Sample ID:	EQB-5	Date Collected:	5/11/2016 10:03
Sample Description	Equipment Blank	Matrix:	Water
Location	Scherer AP		

Parameters	Results	Units	MDL	RL	Prepared	By	Analyzed	By	Qual
TDS	<25	mg/L	25	25			5/13/2016 14:50	KLW	

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ANALYTICAL RESULTS

Workorder: 103329 CCR - Scherer AP

Lab ID:	103329003	Date Received:	5/12/2016 08:30
Sample ID:	SGWC-9	Date Collected:	5/11/2016 11:31
Sample Description	Ash Pond-Down Gradient	Matrix:	Water
Location	Scherer AP		

Parameters	Results	Units	MDL	RL	Prepared	By	Analyzed	By	Qual
Analysis Desc: EPA 6010D			Preparation Method: EPA 3005A						
			Analytical Method: EPA 6010D						
INORGANICS					5/13/2016 09:50	KLW	5/16/2016 15:53	HAM	
Calcium	53.1	mg/L	0.200	1.00	5/13/2016 09:50	KLW	5/16/2016 15:53	HAM	
Analysis Desc: EPA 6020B			Preparation Method: EPA 3005A						
			Analytical Method: EPA 6020B						
TOTAL METALS					5/19/2016 10:00	KLW	5/20/2016 22:05	ELS	
Analysis Desc: EPA 7470A			Preparation Method: EPA 7470A						
			Analytical Method: EPA 7470A						
Mercury	<0.000500	mg/L	0.000250	0.000500	5/16/2016 06:28	WCM	5/16/2016 13:12	WCM	
Analysis Desc: EPA 6020B			Preparation Method: EPA 3005A						
			Analytical Method: EPA 6020B						
Lithium	<0.0500	mg/L	0.0100	0.0500	5/19/2016 10:00	KLW	5/20/2016 22:05	ELS	
Beryllium	<0.00300	mg/L	0.000600	0.00300	5/19/2016 10:00	KLW	5/20/2016 22:05	ELS	
Boron	1.54	mg/L	0.100	0.500	5/19/2016 10:00	KLW	5/20/2016 23:15	ELS	
Chromium	<0.0100	mg/L	0.00200	0.0100	5/19/2016 10:00	KLW	5/20/2016 22:05	ELS	
Cobalt	0.0156	mg/L	0.00200	0.0100	5/19/2016 10:00	KLW	5/20/2016 22:05	ELS	
Arsenic	<0.00500	mg/L	0.00100	0.00500	5/19/2016 10:00	KLW	5/20/2016 22:05	ELS	
Selenium	<0.0100	mg/L	0.00200	0.0100	5/19/2016 10:00	KLW	5/20/2016 22:05	ELS	
Molybdenum	<0.0100	mg/L	0.00200	0.0100	5/19/2016 10:00	KLW	5/20/2016 22:05	ELS	
Cadmium	<0.00100	mg/L	0.000100	0.00100	5/19/2016 10:00	KLW	5/20/2016 22:05	ELS	
Antimony	<0.00300	mg/L	0.000600	0.00300	5/19/2016 10:00	KLW	5/20/2016 22:05	ELS	
Barium	0.0494	mg/L	0.00200	0.0100	5/19/2016 10:00	KLW	5/20/2016 22:05	ELS	
Thallium	<0.00100	mg/L	0.000200	0.00100	5/19/2016 10:00	KLW	5/20/2016 22:05	ELS	
Lead	<0.00500	mg/L	0.00100	0.00500	5/19/2016 10:00	KLW	5/20/2016 22:05	ELS	
Analysis Desc: EPA 300			Analytical Method: EPA 300						
TOTAL NUTRIENTS							5/19/2016 04:51	LBB	
Sulfate	313	mg/L	7.50	25.0			5/19/2016 10:36	LBB	
Chloride	9.29	mg/L	0.2000	1.25			5/19/2016 09:58	LBB	
Fluoride	0.0760J	mg/L	0.0100	0.3000			5/19/2016 04:51	LBB	
Analysis Desc: SM 2540C			Analytical Method: SM 2540C						
WET CHEMISTRY							5/13/2016 14:50	KLW	

Report ID: 103329 - 5032797
 GPC Report Page 7 of 35

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ANALYTICAL RESULTS

Workorder: 103329 CCR - Scherer AP

Lab ID:	103329003	Date Received:	5/12/2016 08:30
Sample ID:	SGWC-9	Date Collected:	5/11/2016 11:31
Sample Description	Ash Pond-Down Gradient	Matrix:	Water
Location	Scherer AP		

Parameters	Results	Units	MDL	RL	Prepared	By	Analyzed	By	Qual
TDS	527	mg/L	25	25			5/13/2016 14:50	KLW	

Report ID: 103329 - 5032797
GPC Report Page 8 of 35

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ANALYTICAL RESULTS

Workorder: 103329 CCR - Scherer AP

Lab ID: 103329004 **Date Received:** 5/12/2016 08:30
Sample ID: SGWC-12 **Date Collected:** 5/11/2016 14:53
Sample Description: Ash Pond-Down Gradient **Matrix:** Water
Location: Scherer AP

Parameters	Results	Units	MDL	RL	Prepared	By	Analyzed	By	Qual
Analysis Desc: EPA 6010D		Preparation Method: EPA 3005A							
		Analytical Method: EPA 6010D							
INORGANICS					5/13/2016 09:50	KLW	5/16/2016 11:26	HAM	
Calcium	23.1	mg/L	0.100	0.500	5/13/2016 09:50	KLW	5/16/2016 11:26	HAM	
Analysis Desc: EPA 6020B		Preparation Method: EPA 3005A							
		Analytical Method: EPA 6020B							
TOTAL METALS					5/19/2016 10:00	KLW	5/20/2016 22:10	ELS	
Analysis Desc: EPA 7470A		Preparation Method: EPA 7470A							
		Analytical Method: EPA 7470A							
Mercury	<0.000500	mg/L	0.000250	0.000500	5/16/2016 06:28	WCM	5/16/2016 13:15	WCM	
Analysis Desc: EPA 6020B		Preparation Method: EPA 3005A							
		Analytical Method: EPA 6020B							
Lithium	<0.0500	mg/L	0.0100	0.0500	5/19/2016 10:00	KLW	5/20/2016 22:10	ELS	
Beryllium	<0.00300	mg/L	0.000600	0.00300	5/19/2016 10:00	KLW	5/20/2016 22:10	ELS	
Boron	<0.100	mg/L	0.0200	0.100	5/19/2016 10:00	KLW	5/20/2016 22:10	ELS	
Chromium	<0.0100	mg/L	0.00200	0.0100	5/19/2016 10:00	KLW	5/20/2016 22:10	ELS	
Cobalt	0.00648J	mg/L	0.00200	0.0100	5/19/2016 10:00	KLW	5/20/2016 22:10	ELS	
Arsenic	<0.00500	mg/L	0.00100	0.00500	5/19/2016 10:00	KLW	5/20/2016 22:10	ELS	
Selenium	<0.0100	mg/L	0.00200	0.0100	5/19/2016 10:00	KLW	5/20/2016 22:10	ELS	
Molybdenum	<0.0100	mg/L	0.00200	0.0100	5/19/2016 10:00	KLW	5/20/2016 22:10	ELS	
Cadmium	<0.00100	mg/L	0.000100	0.00100	5/19/2016 10:00	KLW	5/20/2016 22:10	ELS	
Antimony	<0.00300	mg/L	0.000600	0.00300	5/19/2016 10:00	KLW	5/20/2016 22:10	ELS	
Barium	0.0324	mg/L	0.00200	0.0100	5/19/2016 10:00	KLW	5/20/2016 22:10	ELS	
Thallium	<0.00100	mg/L	0.000200	0.00100	5/19/2016 10:00	KLW	5/20/2016 22:10	ELS	
Lead	<0.00500	mg/L	0.00100	0.00500	5/19/2016 10:00	KLW	5/20/2016 22:10	ELS	
Analysis Desc: EPA 300		Analytical Method: EPA 300							
TOTAL NUTRIENTS							5/19/2016 11:15	LBB	
Sulfate	30.1	mg/L	1.50	5.00			5/19/2016 11:15	LBB	
Chloride	9.04	mg/L	0.2000	1.25			5/19/2016 11:15	LBB	
Fluoride	0.1100J	mg/L	0.0100	0.3000			5/19/2016 05:29	LBB	
Analysis Desc: SM 2540C		Analytical Method: SM 2540C							
WET CHEMISTRY							5/13/2016 14:50	KLW	

Report ID: 103329 - 5032797
 GPC Report Page 9 of 35

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ANALYTICAL RESULTS

Workorder: 103329 CCR - Scherer AP

Lab ID:	103329004	Date Received:	5/12/2016 08:30
Sample ID:	SGWC-12	Date Collected:	5/11/2016 14:53
Sample Description	Ash Pond-Down Gradient	Matrix:	Water
Location	Scherer AP		

Parameters	Results	Units	MDL	RL	Prepared	By	Analyzed	By	Qual
TDS	195	mg/L	25	25			5/13/2016 14:50	KLW	

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ANALYTICAL RESULTS

Workorder: 103329 CCR - Scherer AP

Lab ID:	103329005	Date Received:	5/12/2016 08:30
Sample ID:	Dup-6	Date Collected:	5/11/2016 00:00
Sample Description	Field Duplicate	Matrix:	Water
Location	Scherer AP		

Parameters	Results	Units	MDL	RL	Prepared	By	Analyzed	By	Qual
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Analysis Desc: EPA 6010D	Preparation Method: EPA 3005A
	Analytical Method: EPA 6010D

INORGANICS					5/13/2016 09:50	KLW	5/16/2016 11:32	HAM	
Calcium	22.8	mg/L	0.100	0.500	5/13/2016 09:50	KLW	5/16/2016 11:32	HAM	

Analysis Desc: EPA 7470A	Preparation Method: EPA 7470A
	Analytical Method: EPA 7470A

TOTAL METALS					5/16/2016 06:28	WCM	5/16/2016 13:18	WCM	
Mercury	<0.000500	mg/L	0.000250	0.000500	5/16/2016 06:28	WCM	5/16/2016 13:18	WCM	

Analysis Desc: EPA 6020B	Preparation Method: EPA 3005A
	Analytical Method: EPA 6020B

Lithium	<0.0500	mg/L	0.0100	0.0500	5/19/2016 10:00	KLW	5/20/2016 22:14	ELS	
Beryllium	<0.00300	mg/L	0.000600	0.00300	5/19/2016 10:00	KLW	5/20/2016 22:14	ELS	
Boron	<0.100	mg/L	0.0200	0.100	5/19/2016 10:00	KLW	5/20/2016 22:14	ELS	
Chromium	<0.0100	mg/L	0.00200	0.0100	5/19/2016 10:00	KLW	5/20/2016 22:14	ELS	
Cobalt	0.00661J	mg/L	0.00200	0.0100	5/19/2016 10:00	KLW	5/20/2016 22:14	ELS	
Arsenic	<0.00500	mg/L	0.00100	0.00500	5/19/2016 10:00	KLW	5/20/2016 22:14	ELS	
Selenium	<0.0100	mg/L	0.00200	0.0100	5/19/2016 10:00	KLW	5/20/2016 22:14	ELS	
Molybdenum	<0.0100	mg/L	0.00200	0.0100	5/19/2016 10:00	KLW	5/20/2016 22:14	ELS	
Cadmium	<0.00100	mg/L	0.000100	0.00100	5/19/2016 10:00	KLW	5/20/2016 22:14	ELS	
Antimony	<0.00300	mg/L	0.000600	0.00300	5/19/2016 10:00	KLW	5/20/2016 22:14	ELS	
Barium	0.0315	mg/L	0.00200	0.0100	5/19/2016 10:00	KLW	5/20/2016 22:14	ELS	
Thallium	<0.00100	mg/L	0.000200	0.00100	5/19/2016 10:00	KLW	5/20/2016 22:14	ELS	
Lead	<0.00500	mg/L	0.00100	0.00500	5/19/2016 10:00	KLW	5/20/2016 22:14	ELS	

Analysis Desc: EPA 300	Analytical Method: EPA 300
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TOTAL NUTRIENTS							5/19/2016 11:53	LBB	
Sulfate	30.2	mg/L	1.50	5.00			5/19/2016 11:53	LBB	
Chloride	9.08	mg/L	0.2000	1.25			5/19/2016 11:53	LBB	
Fluoride	0.1100J	mg/L	0.0100	0.3000			5/19/2016 06:07	LBB	

Analysis Desc: SM 2540C	Analytical Method: SM 2540C
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WET CHEMISTRY							5/13/2016 14:50	KLW	
TDS	186	mg/L	25	25			5/13/2016 14:50	KLW	

Report ID: 103329 - 5032797
 GPC Report Page 11 of 35

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ANALYTICAL RESULTS

Workorder: 103329 CCR - Scherer AP

Lab ID:	103329006	Date Received:	5/12/2016 08:30
Sample ID:	SGWC-6	Date Collected:	5/11/2016 09:02
Sample Description	Ash Pond	Matrix:	Water
Location	Scherer AP		

Parameters	Results	Units	MDL	RL	Prepared	By	Analyzed	By	Qual
Analysis Desc: EPA 6010D		Preparation Method: EPA 3005A							
		Analytical Method: EPA 6010D							
INORGANICS					5/13/2016 09:50	KLW	5/16/2016 11:38	HAM	
Calcium	8.70	mg/L	0.100	0.500	5/13/2016 09:50	KLW	5/16/2016 11:38	HAM	
Analysis Desc: EPA 6020B		Preparation Method: EPA 3005A							
		Analytical Method: EPA 6020B							
TOTAL METALS					5/19/2016 10:00	KLW	5/20/2016 22:19	ELS	
Analysis Desc: EPA 7470A		Preparation Method: EPA 7470A							
		Analytical Method: EPA 7470A							
Mercury	<0.000500	mg/L	0.000250	0.000500	5/16/2016 06:28	WCM	5/16/2016 13:20	WCM	
Analysis Desc: EPA 6020B		Preparation Method: EPA 3005A							
		Analytical Method: EPA 6020B							
Lithium	<0.0500	mg/L	0.0100	0.0500	5/19/2016 10:00	KLW	5/20/2016 22:19	ELS	
Beryllium	<0.00300	mg/L	0.000600	0.00300	5/19/2016 10:00	KLW	5/20/2016 22:19	ELS	
Boron	<0.100	mg/L	0.0200	0.100	5/19/2016 10:00	KLW	5/20/2016 22:19	ELS	
Chromium	<0.0100	mg/L	0.00200	0.0100	5/19/2016 10:00	KLW	5/20/2016 22:19	ELS	
Cobalt	<0.0100	mg/L	0.00200	0.0100	5/19/2016 10:00	KLW	5/20/2016 22:19	ELS	
Arsenic	<0.00500	mg/L	0.00100	0.00500	5/19/2016 10:00	KLW	5/20/2016 22:19	ELS	
Selenium	<0.0100	mg/L	0.00200	0.0100	5/19/2016 10:00	KLW	5/20/2016 22:19	ELS	
Molybdenum	<0.0100	mg/L	0.00200	0.0100	5/19/2016 10:00	KLW	5/20/2016 22:19	ELS	
Cadmium	<0.00100	mg/L	0.000100	0.00100	5/19/2016 10:00	KLW	5/20/2016 22:19	ELS	
Antimony	<0.00300	mg/L	0.000600	0.00300	5/19/2016 10:00	KLW	5/20/2016 22:19	ELS	
Barium	0.0933	mg/L	0.00200	0.0100	5/19/2016 10:00	KLW	5/20/2016 22:19	ELS	
Thallium	<0.00100	mg/L	0.000200	0.00100	5/19/2016 10:00	KLW	5/20/2016 22:19	ELS	
Lead	<0.00500	mg/L	0.00100	0.00500	5/19/2016 10:00	KLW	5/20/2016 22:19	ELS	
Analysis Desc: EPA 300		Analytical Method: EPA 300							
TOTAL NUTRIENTS							5/19/2016 06:46	LBB	
Sulfate	0.8660J	mg/L	0.3000	1.00			5/19/2016 06:46	LBB	
Chloride	2.44	mg/L	0.0400	0.2500			5/19/2016 06:46	LBB	
Fluoride	0.1330J	mg/L	0.0100	0.3000			5/19/2016 06:46	LBB	
Analysis Desc: SM 2540C		Analytical Method: SM 2540C							
WET CHEMISTRY							5/13/2016 14:50	KLW	

Report ID: 103329 - 5032797
 GPC Report Page 12 of 35

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ANALYTICAL RESULTS

Workorder: 103329 CCR - Scherer AP

Lab ID:	103329006	Date Received:	5/12/2016 08:30
Sample ID:	SGWC-6	Date Collected:	5/11/2016 09:02
Sample Description	Ash Pond	Matrix:	Water
Location	Scherer AP		

Parameters	Results	Units	MDL	RL	Prepared	By	Analyzed	By	Qual
TDS	104	mg/L	25	25			5/13/2016 14:50	KLW	

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ANALYTICAL RESULTS

Workorder: 103329 CCR - Scherer AP

Lab ID:	103329007	Date Received:	5/12/2016 08:30
Sample ID:	SGWC-8	Date Collected:	5/11/2016 11:40
Sample Description	Ash Pond	Matrix:	Water
Location	Scherer AP		

Parameters	Results	Units	MDL	RL	Prepared	By	Analyzed	By	Qual
Analysis Desc: EPA 6010D		Preparation Method: EPA 3005A							
		Analytical Method: EPA 6010D							
INORGANICS					5/13/2016 09:50	KLW	5/16/2016 11:44	HAM	
Calcium	47.6	mg/L	0.100	0.500	5/13/2016 09:50	KLW	5/16/2016 11:44	HAM	
Analysis Desc: EPA 6020B		Preparation Method: EPA 3005A							
		Analytical Method: EPA 6020B							
TOTAL METALS					5/19/2016 10:00	KLW	5/20/2016 22:24	ELS	
Analysis Desc: EPA 7470A		Preparation Method: EPA 7470A							
		Analytical Method: EPA 7470A							
Mercury	<0.000500	mg/L	0.000250	0.000500	5/16/2016 06:28	WCM	5/16/2016 13:34	WCM	
Analysis Desc: EPA 6020B		Preparation Method: EPA 3005A							
		Analytical Method: EPA 6020B							
Lithium	<0.0500	mg/L	0.0100	0.0500	5/19/2016 10:00	KLW	5/20/2016 22:24	ELS	
Beryllium	<0.00300	mg/L	0.000600	0.00300	5/19/2016 10:00	KLW	5/20/2016 22:24	ELS	
Boron	0.0678J	mg/L	0.0200	0.100	5/19/2016 10:00	KLW	5/20/2016 22:24	ELS	
Chromium	<0.0100	mg/L	0.00200	0.0100	5/19/2016 10:00	KLW	5/20/2016 22:24	ELS	
Cobalt	0.00265J	mg/L	0.00200	0.0100	5/19/2016 10:00	KLW	5/20/2016 22:24	ELS	
Arsenic	<0.00500	mg/L	0.00100	0.00500	5/19/2016 10:00	KLW	5/20/2016 22:24	ELS	
Selenium	<0.0100	mg/L	0.00200	0.0100	5/19/2016 10:00	KLW	5/20/2016 22:24	ELS	
Molybdenum	<0.0100	mg/L	0.00200	0.0100	5/19/2016 10:00	KLW	5/20/2016 22:24	ELS	
Cadmium	<0.00100	mg/L	0.000100	0.00100	5/19/2016 10:00	KLW	5/20/2016 22:24	ELS	
Antimony	<0.00300	mg/L	0.000600	0.00300	5/19/2016 10:00	KLW	5/20/2016 22:24	ELS	
Barium	0.251	mg/L	0.00400	0.0200	5/19/2016 10:00	KLW	5/21/2016 09:25	MRP	
Thallium	<0.00100	mg/L	0.000200	0.00100	5/19/2016 10:00	KLW	5/20/2016 22:24	ELS	
Lead	<0.00500	mg/L	0.00100	0.00500	5/19/2016 10:00	KLW	5/20/2016 22:24	ELS	
Analysis Desc: EPA 300		Analytical Method: EPA 300							
TOTAL NUTRIENTS							5/19/2016 12:31	LBB	
Sulfate	61.6	mg/L	1.50	5.00			5/19/2016 12:31	LBB	
Chloride	12.6	mg/L	0.2000	1.25			5/19/2016 12:31	LBB	
Fluoride	0.3620	mg/L	0.0100	0.3000			5/19/2016 07:24	LBB	
Analysis Desc: SM 2540C		Analytical Method: SM 2540C							
WET CHEMISTRY							5/13/2016 14:50	KLW	

Report ID: 103329 - 5032797
 GPC Report Page 14 of 35

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ANALYTICAL RESULTS

Workorder: 103329 CCR - Scherer AP

Lab ID:	103329007	Date Received:	5/12/2016 08:30
Sample ID:	SGWC-8	Date Collected:	5/11/2016 11:40
Sample Description	Ash Pond	Matrix:	Water
Location	Scherer AP		

Parameters	Results	Units	MDL	RL	Prepared	By	Analyzed	By	Qual
TDS	330	mg/L	25	25			5/13/2016 14:50	KLW	

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ANALYTICAL RESULTS

Workorder: 103329 CCR - Scherer AP

Lab ID:	103329008	Date Received:	5/12/2016 08:30
Sample ID:	SGWC-11	Date Collected:	5/11/2016 14:26
Sample Description	Ash Pond	Matrix:	Water
Location	Scherer AP		

Parameters	Results	Units	MDL	RL	Prepared	By	Analyzed	By	Qual
Analysis Desc: EPA 6010D		Preparation Method: EPA 3005A							
		Analytical Method: EPA 6010D							
INORGANICS					5/13/2016 09:50	KLW	5/16/2016 11:50	HAM	
Calcium	2.91	mg/L	0.100	0.500	5/13/2016 09:50	KLW	5/16/2016 11:50	HAM	
Analysis Desc: EPA 6020B		Preparation Method: EPA 3005A							
		Analytical Method: EPA 6020B							
TOTAL METALS					5/19/2016 10:00	KLW	5/20/2016 22:28	ELS	
Analysis Desc: EPA 7470A		Preparation Method: EPA 7470A							
		Analytical Method: EPA 7470A							
Mercury	<0.000500	mg/L	0.000250	0.000500	5/16/2016 06:28	WCM	5/16/2016 13:42	WCM	
Analysis Desc: EPA 6020B		Preparation Method: EPA 3005A							
		Analytical Method: EPA 6020B							
Lithium	<0.0500	mg/L	0.0100	0.0500	5/19/2016 10:00	KLW	5/20/2016 22:28	ELS	
Beryllium	<0.00300	mg/L	0.000600	0.00300	5/19/2016 10:00	KLW	5/20/2016 22:28	ELS	
Boron	0.242	mg/L	0.0200	0.100	5/19/2016 10:00	KLW	5/20/2016 22:28	ELS	
Chromium	<0.0100	mg/L	0.00200	0.0100	5/19/2016 10:00	KLW	5/20/2016 22:28	ELS	
Cobalt	0.0378	mg/L	0.00200	0.0100	5/19/2016 10:00	KLW	5/20/2016 22:28	ELS	
Arsenic	0.00103J	mg/L	0.00100	0.00500	5/19/2016 10:00	KLW	5/20/2016 22:28	ELS	
Selenium	<0.0100	mg/L	0.00200	0.0100	5/19/2016 10:00	KLW	5/20/2016 22:28	ELS	
Molybdenum	<0.0100	mg/L	0.00200	0.0100	5/19/2016 10:00	KLW	5/20/2016 22:28	ELS	
Cadmium	<0.00100	mg/L	0.000100	0.00100	5/19/2016 10:00	KLW	5/20/2016 22:28	ELS	
Antimony	<0.00300	mg/L	0.000600	0.00300	5/19/2016 10:00	KLW	5/20/2016 22:28	ELS	
Barium	0.0380	mg/L	0.00200	0.0100	5/19/2016 10:00	KLW	5/20/2016 22:28	ELS	
Thallium	<0.00100	mg/L	0.000200	0.00100	5/19/2016 10:00	KLW	5/20/2016 22:28	ELS	
Lead	<0.00500	mg/L	0.00100	0.00500	5/19/2016 10:00	KLW	5/20/2016 22:28	ELS	
Analysis Desc: EPA 300		Analytical Method: EPA 300							
TOTAL NUTRIENTS							5/19/2016 13:10	LBB	
Sulfate	6.31	mg/L	0.3000	1.00			5/19/2016 08:03	LBB	
Chloride	8.87	mg/L	0.2000	1.25			5/19/2016 13:10	LBB	
Fluoride	0.0330J	mg/L	0.0100	0.3000			5/19/2016 08:03	LBB	
Analysis Desc: SM 2540C		Analytical Method: SM 2540C							
WET CHEMISTRY							5/13/2016 14:50	KLW	

Report ID: 103329 - 5032797
 GPC Report Page 16 of 35

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ANALYTICAL RESULTS

Workorder: 103329 CCR - Scherer AP

Lab ID:	103329008	Date Received:	5/12/2016 08:30
Sample ID:	SGWC-11	Date Collected:	5/11/2016 14:26
Sample Description	Ash Pond	Matrix:	Water
Location	Scherer AP		

Parameters	Results	Units	MDL	RL	Prepared	By	Analyzed	By	Qual
TDS	80	mg/L	25	25			5/13/2016 14:50	KLW	

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ANALYTICAL RESULTS

Workorder: 103329 CCR - Scherer AP

Lab ID:	103329009	Date Received:	5/12/2016 08:30
Sample ID:	Field Blank-5	Date Collected:	5/11/2016 11:56
Sample Description	Field Blank 5	Matrix:	Water
Location	Scherer AP		

Parameters	Results	Units	MDL	RL	Prepared	By	Analyzed	By	Qual
Analysis Desc: EPA 6010D		Preparation Method: EPA 3005A							
		Analytical Method: EPA 6010D							
INORGANICS					5/13/2016 09:50	KLW	5/16/2016 12:32	HAM	
Calcium	<0.500	mg/L	0.100	0.500	5/13/2016 09:50	KLW	5/16/2016 12:32	HAM	
Analysis Desc: EPA 6020B		Preparation Method: EPA 3005A							
		Analytical Method: EPA 6020B							
TOTAL METALS					5/19/2016 10:00	KLW	5/20/2016 22:33	ELS	
Analysis Desc: EPA 7470A		Preparation Method: EPA 7470A							
		Analytical Method: EPA 7470A							
Mercury	<0.000500	mg/L	0.000250	0.000500	5/16/2016 06:28	WCM	5/16/2016 13:47	WCM	
Analysis Desc: EPA 6020B		Preparation Method: EPA 3005A							
		Analytical Method: EPA 6020B							
Lithium	<0.0500	mg/L	0.0100	0.0500	5/19/2016 10:00	KLW	5/20/2016 22:33	ELS	
Beryllium	<0.00300	mg/L	0.000600	0.00300	5/19/2016 10:00	KLW	5/20/2016 22:33	ELS	
Boron	<0.100	mg/L	0.0200	0.100	5/19/2016 10:00	KLW	5/20/2016 22:33	ELS	
Chromium	<0.0100	mg/L	0.00200	0.0100	5/19/2016 10:00	KLW	5/20/2016 22:33	ELS	
Cobalt	<0.0100	mg/L	0.00200	0.0100	5/19/2016 10:00	KLW	5/20/2016 22:33	ELS	
Arsenic	<0.00500	mg/L	0.00100	0.00500	5/19/2016 10:00	KLW	5/20/2016 22:33	ELS	
Selenium	<0.0100	mg/L	0.00200	0.0100	5/19/2016 10:00	KLW	5/20/2016 22:33	ELS	
Molybdenum	<0.0100	mg/L	0.00200	0.0100	5/19/2016 10:00	KLW	5/20/2016 22:33	ELS	
Cadmium	<0.00100	mg/L	0.000100	0.00100	5/19/2016 10:00	KLW	5/20/2016 22:33	ELS	
Antimony	<0.00300	mg/L	0.000600	0.00300	5/19/2016 10:00	KLW	5/20/2016 22:33	ELS	
Barium	<0.0100	mg/L	0.00200	0.0100	5/19/2016 10:00	KLW	5/20/2016 22:33	ELS	
Thallium	<0.00100	mg/L	0.000200	0.00100	5/19/2016 10:00	KLW	5/20/2016 22:33	ELS	
Lead	<0.00500	mg/L	0.00100	0.00500	5/19/2016 10:00	KLW	5/20/2016 22:33	ELS	
Analysis Desc: EPA 300		Analytical Method: EPA 300							
TOTAL NUTRIENTS							5/19/2016 08:41	LBB	
Sulfate	<1.00	mg/L	0.3000	1.00			5/19/2016 08:41	LBB	
Chloride	<0.2500	mg/L	0.0400	0.2500			5/19/2016 08:41	LBB	
Fluoride	<0.3000	mg/L	0.0100	0.3000			5/19/2016 08:41	LBB	
Analysis Desc: SM 2540C		Analytical Method: SM 2540C							
WET CHEMISTRY							5/13/2016 14:50	KLW	

Report ID: 103329 - 5032797
 GPC Report Page 18 of 35

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ANALYTICAL RESULTS

Workorder: 103329 CCR - Scherer AP

Lab ID:	103329009	Date Received:	5/12/2016 08:30
Sample ID:	Field Blank-5	Date Collected:	5/11/2016 11:56
Sample Description	Field Blank 5	Matrix:	Water
Location	Scherer AP		

Parameters	Results	Units	MDL	RL	Prepared	By	Analyzed	By	Qual
TDS	<25	mg/L	25	25			5/13/2016 14:50	KLW	

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ANALYTICAL RESULTS

Workorder: 103329 CCR - Scherer AP

Lab ID:	103329010	Date Received:	5/12/2016 08:30
Sample ID:	SGWA-4	Date Collected:	5/11/2016 10:06
Sample Description	Ash Pond Upgradient	Matrix:	Water
Location	Scherer AP		

Parameters	Results	Units	MDL	RL	Prepared	By	Analyzed	By	Qual
Analysis Desc: EPA 6010D		Preparation Method: EPA 3005A							
		Analytical Method: EPA 6010D							
INORGANICS					5/13/2016 09:50	KLW	5/16/2016 12:38	HAM	
Calcium	14.4	mg/L	0.100	0.500	5/13/2016 09:50	KLW	5/16/2016 12:38	HAM	
Analysis Desc: EPA 6020B		Preparation Method: EPA 3005A							
		Analytical Method: EPA 6020B							
TOTAL METALS					5/19/2016 10:00	KLW	5/20/2016 22:38	ELS	
Analysis Desc: EPA 7470A		Preparation Method: EPA 7470A							
		Analytical Method: EPA 7470A							
Mercury	<0.000500	mg/L	0.000250	0.000500	5/16/2016 06:28	WCM	5/16/2016 13:50	WCM	
Analysis Desc: EPA 6020B		Preparation Method: EPA 3005A							
		Analytical Method: EPA 6020B							
Lithium	<0.0500	mg/L	0.0100	0.0500	5/19/2016 10:00	KLW	5/20/2016 22:38	ELS	
Beryllium	<0.00300	mg/L	0.000600	0.00300	5/19/2016 10:00	KLW	5/20/2016 22:38	ELS	
Boron	<0.100	mg/L	0.0200	0.100	5/19/2016 10:00	KLW	5/20/2016 22:38	ELS	
Chromium	0.00217J	mg/L	0.00200	0.0100	5/19/2016 10:00	KLW	5/20/2016 22:38	ELS	
Cobalt	<0.0100	mg/L	0.00200	0.0100	5/19/2016 10:00	KLW	5/20/2016 22:38	ELS	
Arsenic	<0.00500	mg/L	0.00100	0.00500	5/19/2016 10:00	KLW	5/20/2016 22:38	ELS	
Selenium	<0.0100	mg/L	0.00200	0.0100	5/19/2016 10:00	KLW	5/20/2016 22:38	ELS	
Molybdenum	0.00278J	mg/L	0.00200	0.0100	5/19/2016 10:00	KLW	5/20/2016 22:38	ELS	
Cadmium	<0.00100	mg/L	0.000100	0.00100	5/19/2016 10:00	KLW	5/20/2016 22:38	ELS	
Antimony	<0.00300	mg/L	0.000600	0.00300	5/19/2016 10:00	KLW	5/20/2016 22:38	ELS	
Barium	0.0484	mg/L	0.00200	0.0100	5/19/2016 10:00	KLW	5/20/2016 22:38	ELS	
Thallium	<0.00100	mg/L	0.000200	0.00100	5/19/2016 10:00	KLW	5/20/2016 22:38	ELS	
Lead	<0.00500	mg/L	0.00100	0.00500	5/19/2016 10:00	KLW	5/20/2016 22:38	ELS	
Analysis Desc: EPA 300		Analytical Method: EPA 300							
TOTAL NUTRIENTS							5/19/2016 21:29	LBB	
Sulfate	3.75	mg/L	0.3000	1.00			5/19/2016 21:29	LBB	
Chloride	1.93	mg/L	0.0400	0.2500			5/19/2016 21:29	LBB	
Fluoride	0.1080J	mg/L	0.0100	0.3000			5/19/2016 21:29	LBB	
Analysis Desc: SM 2540C		Analytical Method: SM 2540C							
WET CHEMISTRY							5/13/2016 14:50	KLW	

Report ID: 103329 - 5032797
 GPC Report Page 20 of 35

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ANALYTICAL RESULTS

Workorder: 103329 CCR - Scherer AP

Lab ID:	103329010	Date Received:	5/12/2016 08:30
Sample ID:	SGWA-4	Date Collected:	5/11/2016 10:06
Sample Description	Ash Pond Upgradient	Matrix:	Water
Location	Scherer AP		

Parameters	Results	Units	MDL	RL	Prepared	By	Analyzed	By	Qual
TDS	91	mg/L	25	25			5/13/2016 14:50	KLW	

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ANALYTICAL RESULTS

Workorder: 103329 CCR - Scherer AP

Lab ID:	103329011	Date Received:	5/12/2016 08:30
Sample ID:	SGWC-10	Date Collected:	5/11/2016 15:55
Sample Description	Ash Pond	Matrix:	Water
Location	Scherer AP		

Parameters	Results	Units	MDL	RL	Prepared	By	Analyzed	By	Qual
Analysis Desc: EPA 6010D		Preparation Method: EPA 3005A							
		Analytical Method: EPA 6010D							
INORGANICS					5/13/2016 09:50	KLW	5/16/2016 12:44	HAM	
Calcium	4.14	mg/L	0.100	0.500	5/13/2016 09:50	KLW	5/16/2016 12:44	HAM	
Analysis Desc: EPA 6020B		Preparation Method: EPA 3005A							
		Analytical Method: EPA 6020B							
TOTAL METALS					5/19/2016 10:00	KLW	5/20/2016 23:11	ELS	
Analysis Desc: EPA 7470A		Preparation Method: EPA 7470A							
		Analytical Method: EPA 7470A							
Mercury	<0.000500	mg/L	0.000250	0.000500	5/16/2016 06:28	WCM	5/16/2016 13:53	WCM	
Analysis Desc: EPA 6020B		Preparation Method: EPA 3005A							
		Analytical Method: EPA 6020B							
Lithium	<0.0500	mg/L	0.0100	0.0500	5/19/2016 10:00	KLW	5/20/2016 23:11	ELS	
Beryllium	<0.00300	mg/L	0.000600	0.00300	5/19/2016 10:00	KLW	5/20/2016 23:11	ELS	
Boron	0.0275J	mg/L	0.0200	0.100	5/19/2016 10:00	KLW	5/20/2016 23:11	ELS	
Chromium	<0.0100	mg/L	0.00200	0.0100	5/19/2016 10:00	KLW	5/20/2016 23:11	ELS	
Cobalt	0.0191	mg/L	0.00200	0.0100	5/19/2016 10:00	KLW	5/20/2016 23:11	ELS	
Arsenic	<0.00500	mg/L	0.00100	0.00500	5/19/2016 10:00	KLW	5/20/2016 23:11	ELS	
Selenium	<0.0100	mg/L	0.00200	0.0100	5/19/2016 10:00	KLW	5/20/2016 23:11	ELS	
Molybdenum	<0.0100	mg/L	0.00200	0.0100	5/19/2016 10:00	KLW	5/20/2016 23:11	ELS	
Cadmium	<0.00100	mg/L	0.000100	0.00100	5/19/2016 10:00	KLW	5/20/2016 23:11	ELS	
Antimony	<0.00300	mg/L	0.000600	0.00300	5/19/2016 10:00	KLW	5/20/2016 23:11	ELS	
Barium	0.0294	mg/L	0.00200	0.0100	5/19/2016 10:00	KLW	5/20/2016 23:11	ELS	
Thallium	<0.00100	mg/L	0.000200	0.00100	5/19/2016 10:00	KLW	5/20/2016 23:11	ELS	
Lead	<0.00500	mg/L	0.00100	0.00500	5/19/2016 10:00	KLW	5/20/2016 23:11	ELS	
Analysis Desc: EPA 300		Analytical Method: EPA 300							
TOTAL NUTRIENTS							5/19/2016 22:07	LBB	
Sulfate	7.43	mg/L	0.3000	1.00			5/19/2016 22:07	LBB	
Chloride	9.53	mg/L	0.2000	1.25			5/20/2016 10:25	LBB	
Fluoride	0.0190J	mg/L	0.0100	0.3000			5/19/2016 22:07	LBB	
Analysis Desc: SM 2540C		Analytical Method: SM 2540C							
WET CHEMISTRY							5/13/2016 14:50	KLW	

Report ID: 103329 - 5032797
 GPC Report Page 22 of 35

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ANALYTICAL RESULTS

Workorder: 103329 CCR - Scherer AP

Lab ID:	103329011	Date Received:	5/12/2016 08:30
Sample ID:	SGWC-10	Date Collected:	5/11/2016 15:55
Sample Description	Ash Pond	Matrix:	Water
Location	Scherer AP		

Parameters	Results	Units	MDL	RL	Prepared	By	Analyzed	By	Qual
TDS	68	mg/L	25	25			5/13/2016 14:50	KLW	

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ANALYTICAL RESULTS QUALIFIERS

Workorder: 103329 CCR - Scherer AP

PARAMETER QUALIFIERS

ND	None detected at the laboratory Method Detection Limit
MDL	Method Detection Limit
RL	Reporting Limit
J	The reported value is between the laboratory method detection limit and the laboratory reporting limit

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QUALITY CONTROL DATA

Workorder: 103329 CCR - Scherer AP

QC Batch:	DIGM/4306	Analysis Method:		EPA 6010D		
QC Batch Method:	EPA 3005A					
Associated Lab Samples:	103329001	103329002	103329003	103329004	103329005	103329006
	103329007	103329008	103329009	103329010	103329011	

METHOD BLANK: 105872

Parameter	Units	Blank Result	Reporting Limit Qualifiers
INORGANICS			
Calcium	mg/L	<0.500	0.500

LABORATORY CONTROL SAMPLE: 105873

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits Qualifiers
INORGANICS					
Calcium	mg/L	5	5.69	114	80-120

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 105874 105875 Original: 103329008

Parameter	Units	Original Result	Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limit	RPD	Max RPD	Qualifiers
INORGANICS											
Calcium	mg/L	2.91	5	7.98	7.67	101	95.3	75-125	5.8	20	

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QUALITY CONTROL DATA

Workorder: 103329 CCR - Scherer AP

QC Batch:	DIGM/4307		Analysis Method:	EPA 6020B		
QC Batch Method:	EPA 3005A					
Associated Lab Samples:	103329001	103329002	103329003	103329004	103329005	103329006
	103329007	103329008	103329009	103329010	103329011	

METHOD BLANK: 105876

Parameter	Units	Blank Result	Reporting Limit	Qualifiers
TOTAL METALS				
Lithium	mg/L	<0.0500	0.0500	
Beryllium	mg/L	<0.00300	0.00300	
Boron	mg/L	<0.100	0.100	
Chromium	mg/L	<0.0100	0.0100	
Cobalt	mg/L	<0.0100	0.0100	
Arsenic	mg/L	<0.00500	0.00500	
Selenium	mg/L	<0.0100	0.0100	
Molybdenum	mg/L	<0.0100	0.0100	
Cadmium	mg/L	<0.00100	0.00100	
Antimony	mg/L	<0.00300	0.00300	
Barium	mg/L	<0.0100	0.0100	
Thallium	mg/L	<0.00100	0.00100	
Lead	mg/L	<0.00500	0.00500	

LABORATORY CONTROL SAMPLE: 105877

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
TOTAL METALS						
Lithium	mg/L	0.2	0.218	109	80-120	
Beryllium	mg/L	0.1	0.103	103	80-120	
Boron	mg/L	0.1	0.107	107	80-120	
Chromium	mg/L	0.1	0.107	107	80-120	
Cobalt	mg/L	0.1	0.107	107	80-120	
Arsenic	mg/L	0.1	0.104	104	80-120	
Selenium	mg/L	0.1	0.105	105	80-120	
Molybdenum	mg/L	0.1	0.103	103	80-120	
Cadmium	mg/L	0.1	0.106	106	80-120	
Antimony	mg/L	0.1	0.107	107	80-120	
Barium	mg/L	0.1	0.103	103	80-120	
Thallium	mg/L	0.1	0.0996	99.6	80-120	
Lead	mg/L	0.1	0.106	106	80-120	

Report ID: 103329 - 5032797
 GPC Report Page 26 of 35

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QUALITY CONTROL DATA

Workorder: 103329 CCR - Scherer AP

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 105878 105879 Original: 103329010

Parameter	Units	Original Result	Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limit	RPD	Max RPD	Qualifiers
TOTAL METALS											
Lithium	mg/L	0	0.2	0.203	0.214	101	107	75-125	5.8	20	
Beryllium	mg/L	5e-006	0.1	0.0984	0.105	98.4	105	75-125	6.5	20	
Boron	mg/L	0.00881	0.1	0.106	0.110	96.9	101	75-125	4.1	20	
Chromium	mg/L	0.00217	0.1	0.106	0.110	103	108	75-125	4.7	20	
Cobalt	mg/L	0.00026	0.1	0.102	0.107	102	107	75-125	4.8	20	
Arsenic	mg/L	0.00011	0.1	0.103	0.105	103	105	75-125	1.9	20	
Selenium	mg/L	8.4e-005	0.1	0.103	0.101	102	100	75-125	2	20	
Molybdenum	mg/L	0.00278	0.1	0.107	0.109	104	106	75-125	1.9	20	
Cadmium	mg/L	1.2e-005	0.1	0.102	0.106	102	106	75-125	3.8	20	
Antimony	mg/L	0.00031	0.1	0.104	0.109	104	109	75-125	4.7	20	
Barium	mg/L	0.0484	0.1	0.151	0.153	102	105	75-125	2.9	20	
Thallium	mg/L	1.3e-005	0.1	0.0965	0.101	96.5	101	75-125	4.6	20	
Lead	mg/L	4e-005	0.1	0.102	0.106	102	106	75-125	3.8	20	

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QUALITY CONTROL DATA

Workorder: 103329 CCR - Scherer AP

QC Batch:	GRAV/2868	Analysis Method:	SM 2540C			
QC Batch Method:	SM 2540C					
Associated Lab Samples:	103329001	103329002	103329003	103329004	103329005	103329006
	103329007	103329008	103329009	103329010	103329011	

METHOD BLANK: 105903

Parameter	Units	Blank Result	Reporting Limit	Qualifiers
WET CHEMISTRY				
TDS	mg/L	<25	25	

LABORATORY CONTROL SAMPLE: 105906

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
WET CHEMISTRY						
TDS	mg/L	241	226	93.8	90-110	

SAMPLE DUPLICATE: 105904 Original: 103329001

Parameter	Units	Original Result	DUP Result	RPD	Max RPD	Qualifiers
WET CHEMISTRY						
TDS	mg/L	222	221	0.45	20	

SAMPLE DUPLICATE: 105905 Original: 103330002

Parameter	Units	Original Result	DUP Result	RPD	Max RPD	Qualifiers
WET CHEMISTRY						
TDS	mg/L	80	84	4.9	20	

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QUALITY CONTROL DATA

Workorder: 103329 CCR - Scherer AP

QC Batch:	HGPR/1654		Analysis Method:	EPA 7470A		
QC Batch Method:	EPA 7470A					
Associated Lab Samples:	103329001	103329002	103329003	103329004	103329005	103329006
	103329007	103329008	103329009	103329010	103329011	

METHOD BLANK: 105920

Parameter	Units	Blank Result	Reporting Limit	Qualifiers
TOTAL METALS				
Mercury	mg/L	<0.000500	0.000500	

METHOD BLANK: 105926

Parameter	Units	Blank Result	Reporting Limit	Qualifiers
TOTAL METALS				
Mercury	mg/L	<0.000500	0.000500	

LABORATORY CONTROL SAMPLE: 105921

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
TOTAL METALS						
Mercury	mg/L	0.002	0.00204	102	80-120	

LABORATORY CONTROL SAMPLE: 105922

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
TOTAL METALS						
Mercury	mg/L	0.0122	0.0127	104	80-120	

LABORATORY CONTROL SAMPLE: 105927

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
TOTAL METALS						
Mercury	mg/L	0.002	0.00201	100	80-120	

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QUALITY CONTROL DATA

Workorder: 103329 CCR - Scherer AP

QC Batch:	IC/3029	Analysis Method:		EPA 300		
QC Batch Method:	EPA 300					
Associated Lab Samples:	103329001	103329002	103329003	103329004	103329005	103329006
	103329007	103329008	103329009	103329010	103329011	

METHOD BLANK: 105983

Parameter	Units	Blank Result	Reporting Limit	Qualifiers
Chloride	mg/L	<0.2500	0.2500	
Sulfate	mg/L	<1.00	1.00	
Fluoride	mg/L	<0.3000	0.3000	

METHOD BLANK: 105993

Parameter	Units	Blank Result	Reporting Limit	Qualifiers
Chloride	mg/L	<0.2500	0.2500	
Sulfate	mg/L	<1.00	1.00	
Fluoride	mg/L	<0.3000	0.3000	

METHOD BLANK: 106441

Parameter	Units	Blank Result	Reporting Limit	Qualifiers
Chloride	mg/L	<0.2500	0.2500	
Sulfate	mg/L	<1.00	1.00	

LABORATORY CONTROL SAMPLE: 105984

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chloride	mg/L	0.5	0.5140	103	90-110	
Sulfate	mg/L	5	5.07	101	90-110	
Fluoride	mg/L	0.5	0.5330	107	90-110	

LABORATORY CONTROL SAMPLE: 105994

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chloride	mg/L	0.5	0.5150	103	90-110	
Sulfate	mg/L	5	5.06	101	90-110	

Report ID: 103329 - 5032797
 GPC Report Page 31 of 35

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QUALITY CONTROL DATA

Workorder: 103329 CCR - Scherer AP

LABORATORY CONTROL SAMPLE: 105994

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Fluoride	mg/L	0.5	0.5330	107	90-110	

LABORATORY CONTROL SAMPLE: 106442

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chloride	mg/L	0.5	0.5080	102	90-110	
Sulfate	mg/L	5	5.05	101	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 105991 105992 Original: 103330004

Parameter	Units	Original Result	Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limit	RPD	Max RPD	Qualifiers
Sulfate	mg/L	0	10	10.4	10.3	104	103	90-110	0.97	10	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 105995 105996 Original: 103357003

Parameter	Units	Original Result	Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limit	RPD	Max RPD	Qualifiers
Chloride	mg/L	0.073	1	1.10	1.10	103	103	90-110	0	10	

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Workorder: 103329 CCR - Scherer AP

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
103329001	SGWC-7	EPA 3005A	DIGM/4306	EPA 6010D	ICP/5008
103329002	EQB-5	EPA 3005A	DIGM/4306	EPA 6010D	ICP/5008
103329003	SGWC-9	EPA 3005A	DIGM/4306	EPA 6010D	ICP/5008
103329004	SGWC-12	EPA 3005A	DIGM/4306	EPA 6010D	ICP/5008
103329005	Dup-6	EPA 3005A	DIGM/4306	EPA 6010D	ICP/5008
103329006	SGWC-6	EPA 3005A	DIGM/4306	EPA 6010D	ICP/5008
103329007	SGWC-8	EPA 3005A	DIGM/4306	EPA 6010D	ICP/5008
103329008	SGWC-11	EPA 3005A	DIGM/4306	EPA 6010D	ICP/5008
103329009	Field Blank-5	EPA 3005A	DIGM/4306	EPA 6010D	ICP/5008
103329010	SGWA-4	EPA 3005A	DIGM/4306	EPA 6010D	ICP/5008
103329011	SGWC-10	EPA 3005A	DIGM/4306	EPA 6010D	ICP/5008
103329001	SGWC-7	EPA 3005A	DIGM/4307	EPA 6020B	ICPM/1058
103329002	EQB-5	EPA 3005A	DIGM/4307	EPA 6020B	ICPM/1058
103329003	SGWC-9	EPA 3005A	DIGM/4307	EPA 6020B	ICPM/1058
103329004	SGWC-12	EPA 3005A	DIGM/4307	EPA 6020B	ICPM/1058
103329005	Dup-6	EPA 3005A	DIGM/4307	EPA 6020B	ICPM/1058
103329006	SGWC-6	EPA 3005A	DIGM/4307	EPA 6020B	ICPM/1058
103329007	SGWC-8	EPA 3005A	DIGM/4307	EPA 6020B	ICPM/1058
103329008	SGWC-11	EPA 3005A	DIGM/4307	EPA 6020B	ICPM/1058
103329009	Field Blank-5	EPA 3005A	DIGM/4307	EPA 6020B	ICPM/1058
103329010	SGWA-4	EPA 3005A	DIGM/4307	EPA 6020B	ICPM/1058
103329011	SGWC-10	EPA 3005A	DIGM/4307	EPA 6020B	ICPM/1058
103329001	SGWC-7	SM 2540C	GRAV/2868		
103329002	EQB-5	SM 2540C	GRAV/2868		
103329003	SGWC-9	SM 2540C	GRAV/2868		
103329004	SGWC-12	SM 2540C	GRAV/2868		
103329005	Dup-6	SM 2540C	GRAV/2868		
103329006	SGWC-6	SM 2540C	GRAV/2868		
103329007	SGWC-8	SM 2540C	GRAV/2868		
103329008	SGWC-11	SM 2540C	GRAV/2868		
103329009	Field Blank-5	SM 2540C	GRAV/2868		
103329010	SGWA-4	SM 2540C	GRAV/2868		

Report ID: 103329 - 5032797
 GPC Report Page 33 of 35

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Workorder: 103329 CCR - Scherer AP

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
103329011	SGWC-10	SM 2540C	GRAV/2868		
103329001	SGWC-7	EPA 7470A	HGPR/1654	EPA 7470A	CVAA/1839
103329002	EQB-5	EPA 7470A	HGPR/1654	EPA 7470A	CVAA/1839
103329003	SGWC-9	EPA 7470A	HGPR/1654	EPA 7470A	CVAA/1839
103329004	SGWC-12	EPA 7470A	HGPR/1654	EPA 7470A	CVAA/1839
103329005	Dup-6	EPA 7470A	HGPR/1654	EPA 7470A	CVAA/1839
103329006	SGWC-6	EPA 7470A	HGPR/1654	EPA 7470A	CVAA/1839
103329007	SGWC-8	EPA 7470A	HGPR/1654	EPA 7470A	CVAA/1839
103329008	SGWC-11	EPA 7470A	HGPR/1654	EPA 7470A	CVAA/1839
103329009	Field Blank-5	EPA 7470A	HGPR/1654	EPA 7470A	CVAA/1839
103329010	SGWA-4	EPA 7470A	HGPR/1654	EPA 7470A	CVAA/1839
103329011	SGWC-10	EPA 7470A	HGPR/1654	EPA 7470A	CVAA/1839
103329001	SGWC-7	EPA 300	IC/3029		
103329002	EQB-5	EPA 300	IC/3029		
103329003	SGWC-9	EPA 300	IC/3029		
103329004	SGWC-12	EPA 300	IC/3029		
103329005	Dup-6	EPA 300	IC/3029		
103329006	SGWC-6	EPA 300	IC/3029		
103329007	SGWC-8	EPA 300	IC/3029		
103329008	SGWC-11	EPA 300	IC/3029		
103329009	Field Blank-5	EPA 300	IC/3029		
103329010	SGWA-4	EPA 300	IC/3029		
103329011	SGWC-10	EPA 300	IC/3029		

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LABORATORY CERTIFICATIONS

Workorder: 103329 CCR - Scherer AP

Certification Program	Certification Number
NELAC	E57554

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Georgia Power Environmental Laboratory
 NELAP Certification #E57554
 2480 Maner Road, BIN 391110
 Atlanta, Georgia 30339
 Phone: (404) 799-2100
 Company: 8-530-2100

ANALYSIS REQUEST AND CHAIN OF CUSTODY RECORD

LAB USE ONLY
 Work Order No. 103329
 Reviewed By: [Signature]
 Page 1 of 1

Sample Shipment Date:⁸ 5/12/2016
 Sample Received Date:⁹ _____
 Standard Turnaround Time

Company:¹ Southern Company Services
 Report To: Joju Abraham
 Address:² 241 Ralph McGill Blvd SE B10185
 Atlanta, GA 30308
 Phone/Fax:³ 404-506-7239
 Contact:⁴ Joju Abraham
 Project Location:⁵ Plant Scherer
 Account Number:⁶ _____
 Special Instructions:⁷ Scherer AP CCR GW

Sampled By:¹⁰ R. Hilliard
 # of Business Days (Rush) _____
 (Must be cleared through Env. Lab. Prior to shipment)

LAB USE ONLY LAB ID	Sample Number ¹⁴	Collection ¹⁵		Sample Description ¹⁶	Sample Type ¹⁷	Matrix ¹⁸	No. of Containers ¹⁹	ANALYSIS REQUESTED ²¹			PRESERVATIVE ²⁰			Sample Type Key: ²² G-Grab O-Other C-Composite
		Date	Time					HNO3	Ice	HNO3	N	N		
103329001	SGW/C-7	5/11/16	08:28	Ash Pond - down-gradient	G	GW	3	1	1	1				
2	EOB-5	5/11/16	10:03	Equipment Blank	G	DW	3	1	1	1				
3	SGW/C-9	5/11/16	11:31	Ash Pond, down-gradient	G	GW	3	1	1	1				
4	SGW/C-12	5/11/16	14:53	Ash Pond, down-gradient	G	GW	3	1	1	1				
5	Dup-6	5/11/16	—	Field Duplicate	G	GW	3	1	1	1				

LAB USE ONLY: Sample Receipt Information²⁸

Relinquished by:²⁶ [Signature] Date/Time 5/12/16 7:00
 Received by:²⁷ [Signature] Date/Time 5/12/16 6:00
 Relinquished by: [Signature] Date/Time 5/12/16 8:30
 Received by: [Signature] Date/Time 5/12/16 8:30

45°C (G-PEL-IR-4P), with ice, cooler in good condition, seal, PHL2

Georgia Power Environmental Laboratory
 NELAP Certification #E57554
 2480 Maner Road, BIN 39110
 Atlanta, Georgia 30339
 Phone: (404) 799-2100
 Company: 8-530-2100

ANALYSIS REQUEST AND CHAIN OF CUSTODY RECORD

LAB USE ONLY

Work Order No. 103329
 Reviewed By: MS 5-12-16
 Page 1 of 1

Sample Shipment Date:⁸ 5/12/16 Standard Turnaround Time
 Sample Received Date:⁹ _____

Sampled By:¹⁰ Rachel Samuels # of Business Days (Rush)
 (Must be cleared through Env. Lab. Prior to shipment)

Company:¹ Southern Company Services
 Report To: Joju Abraham
 Address:² 241 Ralph McGill Blvd SE B10185
 Atlanta, GA 30308
 Phone/Fax:³ 404-506-7239
 Contact:⁴ Joju Abraham
 Project Location:⁵ Plant Scherer
 Account Number:⁶ _____
 Special Instructions:⁷ Scherer AP OCR GW

LAB USE ONLY LAB ID	Sample Number ¹⁴	Collection ¹⁵		Sample Description ¹⁶	Sample Type	Matrix	No. of Containers	ANALYSIS REQUESTED ²¹			PRESERVATIVE ²⁰			Sample Type Key: ²² G-Gab O-Other C-Composite M-Matrix Key: ²³ O-Oil S-Solid SL-Sludge W-Wipe SW-Surface Water GW-Ground Water WW-Waste Water DW-Drinking Water Preservative Key: ²⁴ H-Hydrochloric Acid N-Nitric Acid S-Sulfuric Acid SH-Sodium Hydroxide SE-Sodium Sulfate P-Phosphoric Acid ST-Sodium Thiosulfate I-Ice U-Unpreserved	LAB USE ONLY ²⁵ Comments
		Date	Time					HNO3 N	Ice I	HNO3 N	G	O	C		
103329006	56WJ-6	5/11/16	902	Ash Pond	G	GW	3	Metals app. III & IV EPA 6020 & EPA 7470	1	1	1				
	56WJ-8	5/11/16	1140	Ash Pond	G	GW	3	Cl, F, SO4 EPA 300 TDS SM2540C Radium 226 & 228 Ga Tech	1	1	1				
	56WJ-11	5/11/16	1426	Ash Pond	G	GW	3		1	1	1				
	Field Blank-5	5/11/16	1156	Field blank 5	G	DW	3		1	1	1				

Signature: Rachel Samuels
 Authorization to subcontract analysis will be assumed acceptable by customer unless stated otherwise.

LAB USE ONLY: Sample Receipt Information ²⁸			
Relinquished by: ²⁶ <u>Rachel Samuels</u>	Date/Time	5/12/16	7:00
Received by: ²⁷ <u>Joju Abraham</u>	Date/Time	5/12/16	8:30
Relinquished by:	Date/Time	5/12/16	8:30
Received by: <u>Joju Abraham</u>	Date/Time	5/12/16	8:30

4.5°C (GFEK-R-4P) with ice, cooling in good condition, sealed, PHK7, Hand.

Sample Receipt Checklist

Client: Scherer
Workorder No.: 103329
Carrier: HAND

of Samples: 11
Tracking No:

Question	Answer	Comment
Radioactivity wasn't checked or is <= background as measured by a survey meter	True	
Custody seals were present on cooler	True	
Custody seals on cooler were intact	True	
Custody seals were present on sample	False	
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
COC is present	True	
COC is filled out in ink and is legible	True	Overwrite present on COC.
COC is filled out with pertinent information	True	
The field sampler's name is on the COC	False	
Sample containers have legible labels	True	
Information on the sample label agrees with information on the COC	True	
Samples are received within holding times	True	
Containers are not broken or leaking	True	
Sample collection date/times are present	True	
Appropriate sample containers are used	True	
Sample bottles are completely filled	True	
Sample preservation is checked	True	
Sample preservation is acceptable	True	
There is sufficient sample volume for all requested analyses	True	
Containers requiring zero headspace have no headspace or the bubble is < 6mm (1/4 inch)	True	
Multiphasic samples are not present	True	
Samples do not require splitting or compositing	True	

Receiving Narrative:



June 3, 2016

Joju Abraham
Southern Company Services
Earth Sciences & Env Eng
42 Inverness Center Parkway
Birmingham, AL 35242

RE: Workorder: 103357 CCR - Scherer AP

Dear Joju Abraham:

The Environmental Laboratory has completed the analysis of your samples and reports the results on the attached pages. Our laboratory maintains current NELAC accreditation for those analytes listed under the scope of accreditation. Analytes not listed in this scope are currently not maintained under an accreditation program. The analytes of this report that are listed under our NELAC scope of accreditation meet all requirements of the NELAC standards, unless otherwise noted by data qualifiers. Internal clients can view the scope and effective dates of our accreditation at:

<http://environmental.southernco.com/gpc/environmental-lab/chem.html>

External clients can receive a copy of our scope of accreditation by contacting the laboratory.

All results relate only to the contents of the samples submitted. Samples will be disposed of after 30 days unless otherwise instructed. This report should only be reproduced in full with all associated records. 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.

If you have any questions or comments, contact your Program Manager:

Maria Padilla

mrpadill@southernco.com

(404) 799-2188 / 8-530-2188

Respectfully submitted,



R. S. Dickerson
rsdicker@southernco.com
QA/QC Specialist

Report ID: 103357 - 5035007
GPC Report Page 1 of 43

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SAMPLE SUMMARY

Workorder: 103357 CCR - Scherer AP

Lab ID	Sample ID	Analysis Request Number	Matrix	Date Collected	Date Received
103357001	SGWC-14	N/A	Water	5/12/2016 08:53	5/13/2016 08:30
103357002	SGWC-17	N/A	Water	5/12/2016 10:55	5/13/2016 08:30
103357003	Field Blank-6	N/A	Water	5/12/2016 10:21	5/13/2016 08:30
103357004	SGWC-21	N/A	Water	5/12/2016 14:02	5/13/2016 08:30
103357005	SGWC-13	N/A	Water	5/12/2016 10:09	5/13/2016 08:30
103357006	SGWC-16	N/A	Water	5/12/2016 13:47	5/13/2016 08:30
103357007	SGWC-22	N/A	Water	5/12/2016 18:30	5/13/2016 08:30
103357008	Field Blank 7	N/A	Water	5/12/2016 18:50	5/13/2016 08:30
103357009	SGWC-15	N/A	Water	5/12/2016 10:19	5/13/2016 08:30
103357010	EQB-6	N/A	Water	5/12/2016 11:30	5/13/2016 08:30
103357011	SGWC-23	N/A	Water	5/12/2016 14:08	5/13/2016 08:30
103357012	SGWC-20	N/A	Water	5/12/2016 16:17	5/13/2016 08:30

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ANALYTICAL RESULTS

Workorder: 103357 CCR - Scherer AP

Lab ID: 103357001 **Date Received:** 5/13/2016 08:30
Sample ID: SGWC-14 **Date Collected:** 5/12/2016 08:53
Sample Description: Ash Pond Down Gradient **Matrix:** Water
Location: Scherer AP

Parameters	Results	Units	MDL	RL	Prepared	By	Analyzed	By	Qual
Analysis Desc: EPA 6010D		Preparation Method: EPA 3005A							
		Analytical Method: EPA 6010D							
INORGANICS					5/16/2016 10:25	KLW	5/16/2016 16:35	HAM	
Calcium	37.7	mg/L	0.100	0.500	5/16/2016 10:25	KLW	5/16/2016 16:35	HAM	
Analysis Desc: EPA 6020B		Preparation Method: EPA 3005A							
		Analytical Method: EPA 6020B							
TOTAL METALS					5/19/2016 10:00	KLW	5/21/2016 12:57	MRP	
Analysis Desc: EPA 7470A		Preparation Method: EPA 7470A							
		Analytical Method: EPA 7470A							
Mercury	<0.000500	mg/L	0.000250	0.000500	5/17/2016 06:25	WCM	5/17/2016 11:49	WCM	
Analysis Desc: EPA 6020B		Preparation Method: EPA 3005A							
		Analytical Method: EPA 6020B							
Lithium	<0.0500	mg/L	0.0100	0.0500	5/19/2016 10:00	KLW	5/21/2016 09:39	MRP	
Beryllium	<0.00300	mg/L	0.000600	0.00300	5/19/2016 10:00	KLW	5/21/2016 09:39	MRP	
Boron	1.38	mg/L	0.0400	0.200	5/19/2016 10:00	KLW	5/21/2016 12:57	MRP	
Chromium	<0.0100	mg/L	0.00200	0.0100	5/19/2016 10:00	KLW	5/21/2016 09:39	MRP	
Cobalt	0.00605J	mg/L	0.00200	0.0100	5/19/2016 10:00	KLW	5/21/2016 09:39	MRP	
Arsenic	<0.00500	mg/L	0.00100	0.00500	5/19/2016 10:00	KLW	5/21/2016 09:39	MRP	
Selenium	<0.0100	mg/L	0.00200	0.0100	5/19/2016 10:00	KLW	5/21/2016 09:39	MRP	
Molybdenum	<0.0100	mg/L	0.00200	0.0100	5/19/2016 10:00	KLW	5/21/2016 09:39	MRP	
Cadmium	0.000136J	mg/L	0.000100	0.00100	5/19/2016 10:00	KLW	5/21/2016 09:39	MRP	
Antimony	<0.00300	mg/L	0.000600	0.00300	5/19/2016 10:00	KLW	5/21/2016 09:39	MRP	
Barium	0.0670	mg/L	0.00200	0.0100	5/19/2016 10:00	KLW	5/21/2016 09:39	MRP	
Thallium	<0.00100	mg/L	0.000200	0.00100	5/19/2016 10:00	KLW	5/21/2016 09:39	MRP	
Lead	<0.00500	mg/L	0.00100	0.00500	5/19/2016 10:00	KLW	5/21/2016 09:39	MRP	
Analysis Desc: EPA 300		Analytical Method: EPA 300							
TOTAL NUTRIENTS							5/19/2016 23:24	LBB	
Sulfate	194	mg/L	3.00	10.0			5/20/2016 11:04	LBB	
Chloride	11.1	mg/L	0.4000	2.50			5/20/2016 11:04	LBB	
Fluoride	0.0310J	mg/L	0.0100	0.3000			5/19/2016 23:24	LBB	
Analysis Desc: SM 2540C		Analytical Method: SM 2540C							
WET CHEMISTRY							5/13/2016 14:50	KLW	

Report ID: 103357 - 5035007
 GPC Report Page 3 of 43

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ANALYTICAL RESULTS

Workorder: 103357 CCR - Scherer AP

Lab ID:	103357001	Date Received:	5/13/2016 08:30
Sample ID:	SGWC-14	Date Collected:	5/12/2016 08:53
Sample Description	Ash Pond Down Gradient	Matrix:	Water
Location	Scherer AP		

Parameters	Results	Units	MDL	RL	Prepared	By	Analyzed	By	Qual
TDS	309	mg/L	25	25			5/13/2016 14:50	KLW	

Report ID: 103357 - 5035007
GPC Report Page 4 of 43

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ANALYTICAL RESULTS

Workorder: 103357 CCR - Scherer AP

Lab ID: 103357002 **Date Received:** 5/13/2016 08:30
Sample ID: SGWC-17 **Date Collected:** 5/12/2016 10:55
Sample Description: Ash Pond Down Gradient **Matrix:** Water
Location: Scherer AP

Parameters	Results	Units	MDL	RL	Prepared	By	Analyzed	By	Qual
Analysis Desc: EPA 6010D			Preparation Method: EPA 3005A						
			Analytical Method: EPA 6010D						
INORGANICS					5/16/2016 10:25	KLW	5/16/2016 16:41	HAM	
Calcium	34.8	mg/L	0.100	0.500	5/16/2016 10:25	KLW	5/16/2016 16:41	HAM	
Analysis Desc: EPA 6020B			Preparation Method: EPA 3005A						
			Analytical Method: EPA 6020B						
TOTAL METALS					5/19/2016 10:00	KLW	5/21/2016 09:50	MRP	
Analysis Desc: EPA 7470A			Preparation Method: EPA 7470A						
			Analytical Method: EPA 7470A						
Mercury	<0.000500	mg/L	0.000250	0.000500	5/17/2016 06:25	WCM	5/17/2016 11:57	WCM	
Analysis Desc: EPA 6020B			Preparation Method: EPA 3005A						
			Analytical Method: EPA 6020B						
Lithium	<0.0500	mg/L	0.0100	0.0500	5/19/2016 10:00	KLW	5/21/2016 09:50	MRP	
Beryllium	<0.00300	mg/L	0.000600	0.00300	5/19/2016 10:00	KLW	5/21/2016 09:50	MRP	
Boron	0.195	mg/L	0.0200	0.100	5/19/2016 10:00	KLW	5/21/2016 09:50	MRP	
Chromium	0.00770J	mg/L	0.00200	0.0100	5/19/2016 10:00	KLW	5/21/2016 09:50	MRP	
Cobalt	<0.0100	mg/L	0.00200	0.0100	5/19/2016 10:00	KLW	5/21/2016 09:50	MRP	
Arsenic	<0.00500	mg/L	0.00100	0.00500	5/19/2016 10:00	KLW	5/21/2016 09:50	MRP	
Selenium	<0.0100	mg/L	0.00200	0.0100	5/19/2016 10:00	KLW	5/21/2016 09:50	MRP	
Molybdenum	<0.0100	mg/L	0.00200	0.0100	5/19/2016 10:00	KLW	5/21/2016 09:50	MRP	
Cadmium	<0.00100	mg/L	0.000100	0.00100	5/19/2016 10:00	KLW	5/21/2016 09:50	MRP	
Antimony	<0.00300	mg/L	0.000600	0.00300	5/19/2016 10:00	KLW	5/21/2016 09:50	MRP	
Barium	0.0157	mg/L	0.00200	0.0100	5/19/2016 10:00	KLW	5/21/2016 09:50	MRP	
Thallium	<0.00100	mg/L	0.000200	0.00100	5/19/2016 10:00	KLW	5/21/2016 09:50	MRP	
Lead	<0.00500	mg/L	0.00100	0.00500	5/19/2016 10:00	KLW	5/21/2016 09:50	MRP	
Analysis Desc: EPA 300			Analytical Method: EPA 300						
TOTAL NUTRIENTS							5/20/2016 00:03	LBB	
Sulfate	125	mg/L	3.00	10.0			5/20/2016 11:42	LBB	
Chloride	9.11	mg/L	0.4000	2.50			5/20/2016 11:42	LBB	
Fluoride	0.0660J	mg/L	0.0100	0.3000			5/20/2016 00:03	LBB	
Analysis Desc: SM 2540C			Analytical Method: SM 2540C						
WET CHEMISTRY							5/13/2016 14:50	KLW	

Report ID: 103357 - 5035007
 GPC Report Page 5 of 43

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ANALYTICAL RESULTS

Workorder: 103357 CCR - Scherer AP

Lab ID:	103357002	Date Received:	5/13/2016 08:30
Sample ID:	SGWC-17	Date Collected:	5/12/2016 10:55
Sample Description	Ash Pond Down Gradient	Matrix:	Water
Location	Scherer AP		

Parameters	Results	Units	MDL	RL	Prepared	By	Analyzed	By	Qual
TDS	261	mg/L	25	25			5/13/2016 14:50	KLW	

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ANALYTICAL RESULTS

Workorder: 103357 CCR - Scherer AP

Lab ID: 103357003 **Date Received:** 5/13/2016 08:30
Sample ID: Field Blank-6 **Date Collected:** 5/12/2016 10:21
Sample Description: Field Blank-6 **Matrix:** Water
Location: Scherer AP

Parameters	Results	Units	MDL	RL	Prepared	By	Analyzed	By	Qual
Analysis Desc: EPA 6010D		Preparation Method: EPA 3005A							
		Analytical Method: EPA 6010D							
INORGANICS					5/16/2016 10:25	KLW	5/16/2016 16:47	HAM	
Calcium	<0.500	mg/L	0.100	0.500	5/16/2016 10:25	KLW	5/16/2016 16:47	HAM	
Analysis Desc: EPA 6020B		Preparation Method: EPA 3005A							
		Analytical Method: EPA 6020B							
TOTAL METALS					5/19/2016 10:00	KLW	5/21/2016 09:54	MRP	
Analysis Desc: EPA 7470A		Preparation Method: EPA 7470A							
		Analytical Method: EPA 7470A							
Mercury	<0.000500	mg/L	0.000250	0.000500	5/17/2016 06:25	WCM	5/17/2016 12:03	WCM	
Analysis Desc: EPA 6020B		Preparation Method: EPA 3005A							
		Analytical Method: EPA 6020B							
Lithium	<0.0500	mg/L	0.0100	0.0500	5/19/2016 10:00	KLW	5/21/2016 09:54	MRP	
Beryllium	<0.00300	mg/L	0.000600	0.00300	5/19/2016 10:00	KLW	5/21/2016 09:54	MRP	
Boron	<0.100	mg/L	0.0200	0.100	5/19/2016 10:00	KLW	5/21/2016 09:54	MRP	
Chromium	<0.0100	mg/L	0.00200	0.0100	5/19/2016 10:00	KLW	5/21/2016 09:54	MRP	
Cobalt	<0.0100	mg/L	0.00200	0.0100	5/19/2016 10:00	KLW	5/21/2016 09:54	MRP	
Arsenic	<0.00500	mg/L	0.00100	0.00500	5/19/2016 10:00	KLW	5/21/2016 09:54	MRP	
Selenium	<0.0100	mg/L	0.00200	0.0100	5/19/2016 10:00	KLW	5/21/2016 09:54	MRP	
Molybdenum	<0.0100	mg/L	0.00200	0.0100	5/19/2016 10:00	KLW	5/21/2016 09:54	MRP	
Cadmium	<0.00100	mg/L	0.000100	0.00100	5/19/2016 10:00	KLW	5/21/2016 09:54	MRP	
Antimony	<0.00300	mg/L	0.000600	0.00300	5/19/2016 10:00	KLW	5/21/2016 09:54	MRP	
Barium	<0.0100	mg/L	0.00200	0.0100	5/19/2016 10:00	KLW	5/21/2016 09:54	MRP	
Thallium	<0.00100	mg/L	0.000200	0.00100	5/19/2016 10:00	KLW	5/21/2016 09:54	MRP	
Lead	<0.00500	mg/L	0.00100	0.00500	5/19/2016 10:00	KLW	5/21/2016 09:54	MRP	
Analysis Desc: EPA 300		Analytical Method: EPA 300							
TOTAL NUTRIENTS							5/20/2016 00:41	LBB	
Sulfate	<1.00	mg/L	0.3000	1.00			5/20/2016 00:41	LBB	
Chloride	0.0730J	mg/L	0.0400	0.2500			5/20/2016 00:41	LBB	
Fluoride	<0.3000	mg/L	0.0100	0.3000			5/20/2016 00:41	LBB	
Analysis Desc: SM 2540C		Analytical Method: SM 2540C							
WET CHEMISTRY							5/13/2016 14:50	KLW	

Report ID: 103357 - 5035007
 GPC Report Page 7 of 43

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ANALYTICAL RESULTS

Workorder: 103357 CCR - Scherer AP

Lab ID:	103357003	Date Received:	5/13/2016 08:30
Sample ID:	Field Blank-6	Date Collected:	5/12/2016 10:21
Sample Description	Field Blank-6	Matrix:	Water
Location	Scherer AP		

Parameters	Results	Units	MDL	RL	Prepared	By	Analyzed	By	Qual
TDS	<25	mg/L	25	25			5/13/2016 14:50	KLW	

Report ID: 103357 - 5035007
GPC Report Page 8 of 43

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ANALYTICAL RESULTS

Workorder: 103357 CCR - Scherer AP

Lab ID: 103357004 **Date Received:** 5/13/2016 08:30
Sample ID: SGWC-21 **Date Collected:** 5/12/2016 14:02
Sample Description: Ash Pond Down Gradient **Matrix:** Water
Location: Scherer AP

Parameters	Results	Units	MDL	RL	Prepared	By	Analyzed	By	Qual
Analysis Desc: EPA 6010D		Preparation Method: EPA 3005A							
		Analytical Method: EPA 6010D							
INORGANICS					5/16/2016 10:25	KLW	5/16/2016 16:53	HAM	
Calcium	28.7	mg/L	0.100	0.500	5/16/2016 10:25	KLW	5/16/2016 16:53	HAM	
Analysis Desc: EPA 6020B		Preparation Method: EPA 3005A							
		Analytical Method: EPA 6020B							
TOTAL METALS					5/19/2016 10:00	KLW	5/21/2016 09:59	MRP	
Analysis Desc: EPA 7470A		Preparation Method: EPA 7470A							
		Analytical Method: EPA 7470A							
Mercury	<0.000500	mg/L	0.000250	0.000500	5/17/2016 06:25	WCM	5/17/2016 12:05	WCM	
Analysis Desc: EPA 6020B		Preparation Method: EPA 3005A							
		Analytical Method: EPA 6020B							
Lithium	<0.0500	mg/L	0.0100	0.0500	5/19/2016 10:00	KLW	5/21/2016 09:59	MRP	
Beryllium	<0.00300	mg/L	0.000600	0.00300	5/19/2016 10:00	KLW	5/21/2016 09:59	MRP	
Boron	1.40	mg/L	0.0400	0.200	5/19/2016 10:00	KLW	5/21/2016 13:13	MRP	
Chromium	<0.0100	mg/L	0.00200	0.0100	5/19/2016 10:00	KLW	5/21/2016 09:59	MRP	
Cobalt	<0.0100	mg/L	0.00200	0.0100	5/19/2016 10:00	KLW	5/21/2016 09:59	MRP	
Arsenic	<0.00500	mg/L	0.00100	0.00500	5/19/2016 10:00	KLW	5/21/2016 09:59	MRP	
Selenium	<0.0100	mg/L	0.00200	0.0100	5/19/2016 10:00	KLW	5/21/2016 09:59	MRP	
Molybdenum	<0.0100	mg/L	0.00200	0.0100	5/19/2016 10:00	KLW	5/21/2016 09:59	MRP	
Cadmium	<0.00100	mg/L	0.000100	0.00100	5/19/2016 10:00	KLW	5/21/2016 09:59	MRP	
Antimony	<0.00300	mg/L	0.000600	0.00300	5/19/2016 10:00	KLW	5/21/2016 09:59	MRP	
Barium	0.0914	mg/L	0.00200	0.0100	5/19/2016 10:00	KLW	5/21/2016 09:59	MRP	
Thallium	<0.00100	mg/L	0.000200	0.00100	5/19/2016 10:00	KLW	5/21/2016 09:59	MRP	
Lead	<0.00500	mg/L	0.00100	0.00500	5/19/2016 10:00	KLW	5/21/2016 09:59	MRP	
Analysis Desc: EPA 300		Analytical Method: EPA 300							
TOTAL NUTRIENTS							5/20/2016 02:36	LBB	
Sulfate	76.9	mg/L	3.00	10.0			5/20/2016 12:21	LBB	
Chloride	7.93	mg/L	0.4000	2.50			5/20/2016 12:21	LBB	
Fluoride	0.0790J	mg/L	0.0100	0.3000			5/20/2016 02:36	LBB	
Analysis Desc: SM 2540C		Analytical Method: SM 2540C							
WET CHEMISTRY							5/13/2016 14:50	KLW	

Report ID: 103357 - 5035007
 GPC Report Page 9 of 43

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ANALYTICAL RESULTS

Workorder: 103357 CCR - Scherer AP

Lab ID:	103357004	Date Received:	5/13/2016 08:30
Sample ID:	SGWC-21	Date Collected:	5/12/2016 14:02
Sample Description	Ash Pond Down Gradient	Matrix:	Water
Location	Scherer AP		

Parameters	Results	Units	MDL	RL	Prepared	By	Analyzed	By	Qual
TDS	260	mg/L	25	25			5/13/2016 14:50	KLW	

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ANALYTICAL RESULTS

Workorder: 103357 CCR - Scherer AP

Lab ID:	103357005	Date Received:	5/13/2016 08:30
Sample ID:	SGWC-13	Date Collected:	5/12/2016 10:09
Sample Description	Ash Pond Down Gradient	Matrix:	Water
Location	Scherer AP		

Parameters	Results	Units	MDL	RL	Prepared	By	Analyzed	By	Qual
Analysis Desc: EPA 6010D			Preparation Method: EPA 3005A						
			Analytical Method: EPA 6010D						
INORGANICS					5/16/2016 10:25	KLW	5/16/2016 16:59	HAM	
Calcium	16.6	mg/L	0.100	0.500	5/16/2016 10:25	KLW	5/16/2016 16:59	HAM	
Analysis Desc: EPA 6020B			Preparation Method: EPA 3005A						
			Analytical Method: EPA 6020B						
TOTAL METALS					5/24/2016 12:32	KLW	5/24/2016 17:52	ELS	
Analysis Desc: EPA 7470A			Preparation Method: EPA 7470A						
			Analytical Method: EPA 7470A						
Mercury	<0.000500	mg/L	0.000250	0.000500	5/17/2016 06:25	WCM	5/17/2016 12:08	WCM	
Analysis Desc: EPA 6020B			Preparation Method: EPA 3005A						
			Analytical Method: EPA 6020B						
Lithium	<0.0500	mg/L	0.0100	0.0500	5/19/2016 10:00	KLW	5/21/2016 10:04	MRP	
Beryllium	<0.00300	mg/L	0.000600	0.00300	5/19/2016 10:00	KLW	5/21/2016 10:04	MRP	
Boron	0.599	mg/L	0.0400	0.200	5/24/2016 12:32	KLW	5/24/2016 17:52	ELS	
Chromium	<0.0100	mg/L	0.00200	0.0100	5/19/2016 10:00	KLW	5/21/2016 10:04	MRP	
Cobalt	0.0145	mg/L	0.00200	0.0100	5/19/2016 10:00	KLW	5/21/2016 10:04	MRP	
Arsenic	<0.00500	mg/L	0.00100	0.00500	5/19/2016 10:00	KLW	5/21/2016 10:04	MRP	
Selenium	<0.0100	mg/L	0.00200	0.0100	5/19/2016 10:00	KLW	5/21/2016 10:04	MRP	
Molybdenum	<0.0100	mg/L	0.00200	0.0100	5/19/2016 10:00	KLW	5/21/2016 10:04	MRP	
Cadmium	<0.00100	mg/L	0.000100	0.00100	5/19/2016 10:00	KLW	5/21/2016 10:04	MRP	
Antimony	<0.00300	mg/L	0.000600	0.00300	5/19/2016 10:00	KLW	5/21/2016 10:04	MRP	
Barium	0.0198	mg/L	0.00200	0.0100	5/19/2016 10:00	KLW	5/21/2016 10:04	MRP	
Thallium	<0.00100	mg/L	0.000200	0.00100	5/19/2016 10:00	KLW	5/21/2016 10:04	MRP	
Lead	<0.00500	mg/L	0.00100	0.00500	5/19/2016 10:00	KLW	5/21/2016 10:04	MRP	
Analysis Desc: EPA 300			Analytical Method: EPA 300						
TOTAL NUTRIENTS							5/20/2016 03:15	LBB	
Sulfate	89.7	mg/L	1.50	5.00			5/20/2016 12:59	LBB	
Chloride	6.29	mg/L	0.2000	1.25			5/20/2016 12:59	LBB	
Fluoride	0.0420J	mg/L	0.0100	0.3000			5/20/2016 03:15	LBB	
Analysis Desc: SM 2540C			Analytical Method: SM 2540C						
WET CHEMISTRY							5/16/2016 16:55	KLW	

Report ID: 103357 - 5035007
 GPC Report Page 11 of 43

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ANALYTICAL RESULTS

Workorder: 103357 CCR - Scherer AP

Lab ID:	103357005	Date Received:	5/13/2016 08:30
Sample ID:	SGWC-13	Date Collected:	5/12/2016 10:09
Sample Description	Ash Pond Down Gradient	Matrix:	Water
Location	Scherer AP		

Parameters	Results	Units	MDL	RL	Prepared	By	Analyzed	By	Qual
TDS	190	mg/L	25	25			5/16/2016 16:55	KLW	

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ANALYTICAL RESULTS

Workorder: 103357 CCR - Scherer AP

Lab ID: 103357006 **Date Received:** 5/13/2016 08:30
Sample ID: SGWC-16 **Date Collected:** 5/12/2016 13:47
Sample Description: Ash Pond Down Gradient **Matrix:** Water
Location: Scherer AP

Parameters	Results	Units	MDL	RL	Prepared	By	Analyzed	By	Qual
Analysis Desc: EPA 6010D		Preparation Method: EPA 3005A							
		Analytical Method: EPA 6010D							
INORGANICS					5/16/2016 10:25	KLW	5/16/2016 17:05	HAM	
Calcium	0.750	mg/L	0.100	0.500	5/16/2016 10:25	KLW	5/16/2016 17:05	HAM	
Analysis Desc: EPA 6020B		Preparation Method: EPA 3005A							
		Analytical Method: EPA 6020B							
TOTAL METALS					5/19/2016 10:00	KLW	5/21/2016 10:42	MRP	
Analysis Desc: EPA 7470A		Preparation Method: EPA 7470A							
		Analytical Method: EPA 7470A							
Mercury	<0.000500	mg/L	0.000250	0.000500	5/17/2016 06:25	WCM	5/17/2016 12:11	WCM	
Analysis Desc: EPA 6020B		Preparation Method: EPA 3005A							
		Analytical Method: EPA 6020B							
Lithium	<0.0500	mg/L	0.0100	0.0500	5/19/2016 10:00	KLW	5/21/2016 10:42	MRP	
Beryllium	<0.00300	mg/L	0.000600	0.00300	5/19/2016 10:00	KLW	5/21/2016 10:42	MRP	
Boron	0.562	mg/L	0.0200	0.100	5/19/2016 10:00	KLW	5/21/2016 10:42	MRP	
Chromium	0.00943J	mg/L	0.00200	0.0100	5/19/2016 10:00	KLW	5/21/2016 10:42	MRP	
Cobalt	0.00303J	mg/L	0.00200	0.0100	5/19/2016 10:00	KLW	5/21/2016 10:42	MRP	
Arsenic	<0.00500	mg/L	0.00100	0.00500	5/19/2016 10:00	KLW	5/21/2016 10:42	MRP	
Selenium	<0.0100	mg/L	0.00200	0.0100	5/19/2016 10:00	KLW	5/21/2016 10:42	MRP	
Molybdenum	<0.0100	mg/L	0.00200	0.0100	5/19/2016 10:00	KLW	5/21/2016 10:42	MRP	
Cadmium	<0.00100	mg/L	0.000100	0.00100	5/19/2016 10:00	KLW	5/21/2016 10:42	MRP	
Antimony	<0.00300	mg/L	0.000600	0.00300	5/19/2016 10:00	KLW	5/21/2016 10:42	MRP	
Barium	0.0163	mg/L	0.00200	0.0100	5/19/2016 10:00	KLW	5/21/2016 10:42	MRP	
Thallium	<0.00100	mg/L	0.000200	0.00100	5/19/2016 10:00	KLW	5/21/2016 10:42	MRP	
Lead	<0.00500	mg/L	0.00100	0.00500	5/19/2016 10:00	KLW	5/21/2016 10:42	MRP	
Analysis Desc: EPA 300		Analytical Method: EPA 300							
TOTAL NUTRIENTS							5/20/2016 03:53	LBB	
Sulfate	9.90	mg/L	0.3000	1.00			5/20/2016 03:53	LBB	
Chloride	8.56	mg/L	0.2000	1.25			5/20/2016 13:37	LBB	
Fluoride	0.0110J	mg/L	0.0100	0.3000			5/20/2016 03:53	LBB	
Analysis Desc: SM 2540C		Analytical Method: SM 2540C							
WET CHEMISTRY							5/16/2016 16:55	KLW	

Report ID: 103357 - 5035007
 GPC Report Page 13 of 43

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ANALYTICAL RESULTS

Workorder: 103357 CCR - Scherer AP

Lab ID:	103357006	Date Received:	5/13/2016 08:30
Sample ID:	SGWC-16	Date Collected:	5/12/2016 13:47
Sample Description	Ash Pond Down Gradient	Matrix:	Water
Location	Scherer AP		

Parameters	Results	Units	MDL	RL	Prepared	By	Analyzed	By	Qual
TDS	46	mg/L	25	25			5/16/2016 16:55	KLW	

Report ID: 103357 - 5035007
GPC Report Page 14 of 43

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ANALYTICAL RESULTS

Workorder: 103357 CCR - Scherer AP

Lab ID:	103357007	Date Received:	5/13/2016 08:30
Sample ID:	SGWC-22	Date Collected:	5/12/2016 18:30
Sample Description	Ash Pond Down Gradient	Matrix:	Water
Location	Scherer AP		

Parameters	Results	Units	MDL	RL	Prepared	By	Analyzed	By	Qual
Analysis Desc: EPA 6010D		Preparation Method: EPA 3005A							
		Analytical Method: EPA 6010D							
INORGANICS					5/16/2016 10:25	KLW	5/16/2016 17:23	HAM	
Calcium	21.9	mg/L	0.100	0.500	5/16/2016 10:25	KLW	5/16/2016 17:23	HAM	
Analysis Desc: EPA 6020B		Preparation Method: EPA 3005A							
		Analytical Method: EPA 6020B							
TOTAL METALS					5/19/2016 10:00	KLW	5/21/2016 10:47	MRP	
Analysis Desc: EPA 7470A		Preparation Method: EPA 7470A							
		Analytical Method: EPA 7470A							
Mercury	<0.000500	mg/L	0.000250	0.000500	5/17/2016 06:25	WCM	5/17/2016 12:13	WCM	
Analysis Desc: EPA 6020B		Preparation Method: EPA 3005A							
		Analytical Method: EPA 6020B							
Lithium	<0.0500	mg/L	0.0100	0.0500	5/19/2016 10:00	KLW	5/21/2016 10:47	MRP	
Beryllium	<0.00300	mg/L	0.000600	0.00300	5/19/2016 10:00	KLW	5/21/2016 10:47	MRP	
Boron	0.411	mg/L	0.0200	0.100	5/19/2016 10:00	KLW	5/21/2016 10:47	MRP	
Chromium	<0.0100	mg/L	0.00200	0.0100	5/19/2016 10:00	KLW	5/21/2016 10:47	MRP	
Cobalt	0.00619J	mg/L	0.00200	0.0100	5/19/2016 10:00	KLW	5/21/2016 10:47	MRP	
Arsenic	<0.00500	mg/L	0.00100	0.00500	5/19/2016 10:00	KLW	5/21/2016 10:47	MRP	
Selenium	<0.0100	mg/L	0.00200	0.0100	5/19/2016 10:00	KLW	5/21/2016 10:47	MRP	
Molybdenum	<0.0100	mg/L	0.00200	0.0100	5/19/2016 10:00	KLW	5/21/2016 10:47	MRP	
Cadmium	<0.00100	mg/L	0.000100	0.00100	5/19/2016 10:00	KLW	5/21/2016 10:47	MRP	
Antimony	<0.00300	mg/L	0.000600	0.00300	5/19/2016 10:00	KLW	5/21/2016 10:47	MRP	
Barium	0.100	mg/L	0.00200	0.0100	5/19/2016 10:00	KLW	5/21/2016 10:47	MRP	
Thallium	<0.00100	mg/L	0.000200	0.00100	5/19/2016 10:00	KLW	5/21/2016 10:47	MRP	
Lead	<0.00500	mg/L	0.00100	0.00500	5/19/2016 10:00	KLW	5/21/2016 10:47	MRP	
Analysis Desc: EPA 300		Analytical Method: EPA 300							
TOTAL NUTRIENTS							5/20/2016 04:31	LBB	
Sulfate	85.3	mg/L	3.00	10.0			5/20/2016 14:16	LBB	
Chloride	10.6	mg/L	0.4000	2.50			5/20/2016 14:16	LBB	
Fluoride	0.0290J	mg/L	0.0100	0.3000			5/20/2016 04:31	LBB	
Analysis Desc: SM 2540C		Analytical Method: SM 2540C							
WET CHEMISTRY							5/16/2016 16:55	KLW	

Report ID: 103357 - 5035007
 GPC Report Page 15 of 43

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ANALYTICAL RESULTS

Workorder: 103357 CCR - Scherer AP

Lab ID:	103357007	Date Received:	5/13/2016 08:30
Sample ID:	SGWC-22	Date Collected:	5/12/2016 18:30
Sample Description	Ash Pond Down Gradient	Matrix:	Water
Location	Scherer AP		

Parameters	Results	Units	MDL	RL	Prepared	By	Analyzed	By	Qual
TDS	212	mg/L	25	25			5/16/2016 16:55	KLW	

Report ID: 103357 - 5035007
GPC Report Page 16 of 43

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ANALYTICAL RESULTS

Workorder: 103357 CCR - Scherer AP

Lab ID:	103357008	Date Received:	5/13/2016 08:30
Sample ID:	Field Blank 7	Date Collected:	5/12/2016 18:50
Sample Description	QC Field Blank	Matrix:	Water
Location	Scherer AP		

Parameters	Results	Units	MDL	RL	Prepared	By	Analyzed	By	Qual
Analysis Desc: EPA 6010D		Preparation Method: EPA 3005A							
		Analytical Method: EPA 6010D							
INORGANICS					5/16/2016 10:25	KLW	5/16/2016 17:29	HAM	
Calcium	<0.500	mg/L	0.100	0.500	5/16/2016 10:25	KLW	5/16/2016 17:29	HAM	
Analysis Desc: EPA 6020B		Preparation Method: EPA 3005A							
		Analytical Method: EPA 6020B							
TOTAL METALS					5/19/2016 10:00	KLW	5/21/2016 10:52	MRP	
Analysis Desc: EPA 7470A		Preparation Method: EPA 7470A							
		Analytical Method: EPA 7470A							
Mercury	<0.000500	mg/L	0.000250	0.000500	5/17/2016 06:25	WCM	5/17/2016 12:16	WCM	
Analysis Desc: EPA 6020B		Preparation Method: EPA 3005A							
		Analytical Method: EPA 6020B							
Lithium	<0.0500	mg/L	0.0100	0.0500	5/19/2016 10:00	KLW	5/21/2016 10:52	MRP	
Beryllium	<0.00300	mg/L	0.000600	0.00300	5/19/2016 10:00	KLW	5/21/2016 10:52	MRP	
Boron	<0.100	mg/L	0.0200	0.100	5/19/2016 10:00	KLW	5/21/2016 10:52	MRP	
Chromium	<0.0100	mg/L	0.00200	0.0100	5/19/2016 10:00	KLW	5/21/2016 10:52	MRP	
Cobalt	<0.0100	mg/L	0.00200	0.0100	5/19/2016 10:00	KLW	5/21/2016 10:52	MRP	
Arsenic	<0.00500	mg/L	0.00100	0.00500	5/19/2016 10:00	KLW	5/21/2016 10:52	MRP	
Selenium	<0.0100	mg/L	0.00200	0.0100	5/19/2016 10:00	KLW	5/21/2016 10:52	MRP	
Molybdenum	<0.0100	mg/L	0.00200	0.0100	5/19/2016 10:00	KLW	5/21/2016 10:52	MRP	
Cadmium	<0.00100	mg/L	0.000100	0.00100	5/19/2016 10:00	KLW	5/21/2016 10:52	MRP	
Antimony	<0.00300	mg/L	0.000600	0.00300	5/19/2016 10:00	KLW	5/21/2016 10:52	MRP	
Barium	<0.0100	mg/L	0.00200	0.0100	5/19/2016 10:00	KLW	5/21/2016 10:52	MRP	
Thallium	<0.00100	mg/L	0.000200	0.00100	5/19/2016 10:00	KLW	5/21/2016 10:52	MRP	
Lead	<0.00500	mg/L	0.00100	0.00500	5/19/2016 10:00	KLW	5/21/2016 10:52	MRP	
Analysis Desc: EPA 300		Analytical Method: EPA 300							
TOTAL NUTRIENTS							5/19/2016 16:35	LBB	
Sulfate	<1.00	mg/L	0.3000	1.00			5/19/2016 16:35	LBB	
Chloride	<0.2500	mg/L	0.0400	0.2500			5/19/2016 16:35	LBB	
Fluoride	<0.3000	mg/L	0.0100	0.3000			5/19/2016 16:35	LBB	
Analysis Desc: SM 2540C		Analytical Method: SM 2540C							
WET CHEMISTRY							5/16/2016 16:55	KLW	

Report ID: 103357 - 5035007
 GPC Report Page 17 of 43

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ANALYTICAL RESULTS

Workorder: 103357 CCR - Scherer AP

Lab ID:	103357008	Date Received:	5/13/2016 08:30
Sample ID:	Field Blank 7	Date Collected:	5/12/2016 18:50
Sample Description	QC Field Blank	Matrix:	Water
Location	Scherer AP		

Parameters	Results	Units	MDL	RL	Prepared	By	Analyzed	By	Qual
TDS	<25	mg/L	25	25			5/16/2016 16:55	KLW	

Report ID: 103357 - 5035007
GPC Report Page 18 of 43

CERTIFICATE OF ANALYSIS

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ANALYTICAL RESULTS

Workorder: 103357 CCR - Scherer AP

Lab ID:	103357009	Date Received:	5/13/2016 08:30
Sample ID:	SGWC-15	Date Collected:	5/12/2016 10:19
Sample Description	Ash Pond Down Gradient	Matrix:	Water
Location	Scherer AP		

Parameters	Results	Units	MDL	RL	Prepared	By	Analyzed	By	Qual
Analysis Desc: EPA 6010D		Preparation Method: EPA 3005A							
		Analytical Method: EPA 6010D							
INORGANICS					5/16/2016 10:25	KLW	5/16/2016 18:00	HAM	
Calcium	14.5	mg/L	0.100	0.500	5/16/2016 10:25	KLW	5/16/2016 18:00	HAM	
Analysis Desc: EPA 6020B		Preparation Method: EPA 3005A							
		Analytical Method: EPA 6020B							
TOTAL METALS					5/19/2016 10:00	KLW	5/21/2016 10:56	MRP	
Analysis Desc: EPA 7470A		Preparation Method: EPA 7470A							
		Analytical Method: EPA 7470A							
Mercury	<0.000500	mg/L	0.000250	0.000500	5/17/2016 06:25	WCM	5/17/2016 12:19	WCM	
Analysis Desc: EPA 6020B		Preparation Method: EPA 3005A							
		Analytical Method: EPA 6020B							
Lithium	<0.0500	mg/L	0.0100	0.0500	5/19/2016 10:00	KLW	5/21/2016 10:56	MRP	
Beryllium	<0.00300	mg/L	0.000600	0.00300	5/19/2016 10:00	KLW	5/21/2016 10:56	MRP	
Boron	1.57	mg/L	0.100	0.500	5/19/2016 10:00	KLW	5/21/2016 12:08	MRP	
Chromium	0.0335	mg/L	0.00200	0.0100	5/19/2016 10:00	KLW	5/21/2016 10:56	MRP	
Cobalt	0.267	mg/L	0.0100	0.0500	5/19/2016 10:00	KLW	5/21/2016 12:08	MRP	
Arsenic	<0.00500	mg/L	0.00100	0.00500	5/19/2016 10:00	KLW	5/21/2016 10:56	MRP	
Selenium	0.00965J	mg/L	0.00200	0.0100	5/19/2016 10:00	KLW	5/21/2016 10:56	MRP	
Molybdenum	<0.0100	mg/L	0.00200	0.0100	5/19/2016 10:00	KLW	5/21/2016 10:56	MRP	
Cadmium	0.000265J	mg/L	0.000100	0.00100	5/19/2016 10:00	KLW	5/21/2016 10:56	MRP	
Antimony	<0.00300	mg/L	0.000600	0.00300	5/19/2016 10:00	KLW	5/21/2016 10:56	MRP	
Barium	0.0410	mg/L	0.00200	0.0100	5/19/2016 10:00	KLW	5/21/2016 10:56	MRP	
Thallium	<0.00100	mg/L	0.000200	0.00100	5/19/2016 10:00	KLW	5/21/2016 10:56	MRP	
Lead	<0.00500	mg/L	0.00100	0.00500	5/19/2016 10:00	KLW	5/21/2016 10:56	MRP	
Analysis Desc: EPA 300		Analytical Method: EPA 300							
TOTAL NUTRIENTS							5/20/2016 09:52	LBB	
Sulfate	194	mg/L	3.00	10.0			5/20/2016 09:52	LBB	
Chloride	9.47	mg/L	0.4000	2.50			5/20/2016 09:52	LBB	
Fluoride	0.1071J	mg/L	0.0100	0.3000			5/19/2016 17:05	LBB	
Analysis Desc: SM 2540C		Analytical Method: SM 2540C							
WET CHEMISTRY							5/16/2016 16:55	KLW	

Report ID: 103357 - 5035007
 GPC Report Page 19 of 43

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ANALYTICAL RESULTS

Workorder: 103357 CCR - Scherer AP

Lab ID:	103357009	Date Received:	5/13/2016 08:30
Sample ID:	SGWC-15	Date Collected:	5/12/2016 10:19
Sample Description	Ash Pond Down Gradient	Matrix:	Water
Location	Scherer AP		

Parameters	Results	Units	MDL	RL	Prepared	By	Analyzed	By	Qual
TDS	298	mg/L	25	25			5/16/2016 16:55	KLW	

Report ID: 103357 - 5035007
GPC Report Page 20 of 43

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ANALYTICAL RESULTS

Workorder: 103357 CCR - Scherer AP

Lab ID:	103357010	Date Received:	5/13/2016 08:30
Sample ID:	EQB-6	Date Collected:	5/12/2016 11:30
Sample Description	Equipment Blank	Matrix:	Water
Location	Scherer AP		

Parameters	Results	Units	MDL	RL	Prepared	By	Analyzed	By	Qual
Analysis Desc: EPA 6010D			Preparation Method: EPA 3005A						
			Analytical Method: EPA 6010D						
INORGANICS					5/16/2016 10:25	KLW	5/16/2016 18:06	HAM	
Calcium	<0.500	mg/L	0.100	0.500	5/16/2016 10:25	KLW	5/16/2016 18:06	HAM	
Analysis Desc: EPA 6020B			Preparation Method: EPA 3005A						
			Analytical Method: EPA 6020B						
TOTAL METALS					5/19/2016 10:00	KLW	5/21/2016 11:01	MRP	
Analysis Desc: EPA 7470A			Preparation Method: EPA 7470A						
			Analytical Method: EPA 7470A						
Mercury	<0.000500	mg/L	0.000250	0.000500	5/17/2016 06:25	WCM	5/17/2016 12:21	WCM	
Analysis Desc: EPA 6020B			Preparation Method: EPA 3005A						
			Analytical Method: EPA 6020B						
Lithium	<0.0500	mg/L	0.0100	0.0500	5/19/2016 10:00	KLW	5/21/2016 11:01	MRP	
Beryllium	<0.00300	mg/L	0.000600	0.00300	5/19/2016 10:00	KLW	5/21/2016 11:01	MRP	
Boron	<0.100	mg/L	0.0200	0.100	5/19/2016 10:00	KLW	5/21/2016 11:01	MRP	
Chromium	<0.0100	mg/L	0.00200	0.0100	5/19/2016 10:00	KLW	5/21/2016 11:01	MRP	
Cobalt	<0.0100	mg/L	0.00200	0.0100	5/19/2016 10:00	KLW	5/21/2016 11:01	MRP	
Arsenic	<0.00500	mg/L	0.00100	0.00500	5/19/2016 10:00	KLW	5/21/2016 11:01	MRP	
Selenium	<0.0100	mg/L	0.00200	0.0100	5/19/2016 10:00	KLW	5/21/2016 11:01	MRP	
Molybdenum	<0.0100	mg/L	0.00200	0.0100	5/19/2016 10:00	KLW	5/21/2016 11:01	MRP	
Cadmium	<0.00100	mg/L	0.000100	0.00100	5/19/2016 10:00	KLW	5/21/2016 11:01	MRP	
Antimony	<0.00300	mg/L	0.000600	0.00300	5/19/2016 10:00	KLW	5/21/2016 11:01	MRP	
Barium	<0.0100	mg/L	0.00200	0.0100	5/19/2016 10:00	KLW	5/21/2016 11:01	MRP	
Thallium	<0.00100	mg/L	0.000200	0.00100	5/19/2016 10:00	KLW	5/21/2016 11:01	MRP	
Lead	<0.00500	mg/L	0.00100	0.00500	5/19/2016 10:00	KLW	5/21/2016 11:01	MRP	
Analysis Desc: EPA 300			Analytical Method: EPA 300						
TOTAL NUTRIENTS							5/19/2016 17:35	LBB	
Sulfate	<1.00	mg/L	0.3000	1.00			5/19/2016 17:35	LBB	
Chloride	<0.2500	mg/L	0.0400	0.2500			5/19/2016 17:35	LBB	
Fluoride	<0.3000	mg/L	0.0100	0.3000			5/19/2016 17:35	LBB	
Analysis Desc: SM 2540C			Analytical Method: SM 2540C						
WET CHEMISTRY							5/16/2016 16:55	KLW	

Report ID: 103357 - 5035007
 GPC Report Page 21 of 43

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ANALYTICAL RESULTS

Workorder: 103357 CCR - Scherer AP

Lab ID:	103357010	Date Received:	5/13/2016 08:30
Sample ID:	EQB-6	Date Collected:	5/12/2016 11:30
Sample Description	Equipment Blank	Matrix:	Water
Location	Scherer AP		

Parameters	Results	Units	MDL	RL	Prepared	By	Analyzed	By	Qual
TDS	<25	mg/L	25	25			5/16/2016 16:55	KLW	

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ANALYTICAL RESULTS

Workorder: 103357 CCR - Scherer AP

Lab ID:	103357011	Date Received:	5/13/2016 08:30
Sample ID:	SGWC-23	Date Collected:	5/12/2016 14:08
Sample Description	Ash Pond Down Gradient	Matrix:	Water
Location	Scherer AP		

Parameters	Results	Units	MDL	RL	Prepared	By	Analyzed	By	Qual
Analysis Desc: EPA 6010D		Preparation Method: EPA 3005A							
		Analytical Method: EPA 6010D							
INORGANICS					5/16/2016 10:25	KLW	5/16/2016 18:12	HAM	
Calcium	27.6	mg/L	0.100	0.500	5/16/2016 10:25	KLW	5/16/2016 18:12	HAM	
Analysis Desc: EPA 6020B		Preparation Method: EPA 3005A							
		Analytical Method: EPA 6020B							
TOTAL METALS					5/19/2016 10:00	KLW	5/21/2016 11:06	MRP	
Analysis Desc: EPA 7470A		Preparation Method: EPA 7470A							
		Analytical Method: EPA 7470A							
Mercury	<0.000500	mg/L	0.000250	0.000500	5/17/2016 06:25	WCM	5/17/2016 12:35	WCM	
Analysis Desc: EPA 6020B		Preparation Method: EPA 3005A							
		Analytical Method: EPA 6020B							
Lithium	<0.0500	mg/L	0.0100	0.0500	5/19/2016 10:00	KLW	5/21/2016 11:06	MRP	
Beryllium	<0.00300	mg/L	0.000600	0.00300	5/19/2016 10:00	KLW	5/21/2016 11:06	MRP	
Boron	0.691	mg/L	0.0200	0.100	5/19/2016 10:00	KLW	5/21/2016 11:06	MRP	
Chromium	<0.0100	mg/L	0.00200	0.0100	5/19/2016 10:00	KLW	5/21/2016 11:06	MRP	
Cobalt	<0.0100	mg/L	0.00200	0.0100	5/19/2016 10:00	KLW	5/21/2016 11:06	MRP	
Arsenic	<0.00500	mg/L	0.00100	0.00500	5/19/2016 10:00	KLW	5/21/2016 11:06	MRP	
Selenium	<0.0100	mg/L	0.00200	0.0100	5/19/2016 10:00	KLW	5/21/2016 11:06	MRP	
Molybdenum	<0.0100	mg/L	0.00200	0.0100	5/19/2016 10:00	KLW	5/21/2016 11:06	MRP	
Cadmium	<0.00100	mg/L	0.000100	0.00100	5/19/2016 10:00	KLW	5/21/2016 11:06	MRP	
Antimony	<0.00300	mg/L	0.000600	0.00300	5/19/2016 10:00	KLW	5/21/2016 11:06	MRP	
Barium	0.0959	mg/L	0.00200	0.0100	5/19/2016 10:00	KLW	5/21/2016 11:06	MRP	
Thallium	<0.00100	mg/L	0.000200	0.00100	5/19/2016 10:00	KLW	5/21/2016 11:06	MRP	
Lead	<0.00500	mg/L	0.00100	0.00500	5/19/2016 10:00	KLW	5/21/2016 11:06	MRP	
Analysis Desc: EPA 300		Analytical Method: EPA 300							
TOTAL NUTRIENTS							5/19/2016 19:05	LBB	
Sulfate	131	mg/L	3.00	10.0			5/20/2016 10:21	LBB	
Chloride	9.63	mg/L	0.4000	2.50			5/20/2016 10:21	LBB	
Fluoride	0.0341J	mg/L	0.0100	0.3000			5/19/2016 19:05	LBB	
Analysis Desc: SM 2540C		Analytical Method: SM 2540C							
WET CHEMISTRY							5/16/2016 16:55	KLW	

Report ID: 103357 - 5035007
 GPC Report Page 23 of 43

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ANALYTICAL RESULTS

Workorder: 103357 CCR - Scherer AP

Lab ID:	103357011	Date Received:	5/13/2016 08:30
Sample ID:	SGWC-23	Date Collected:	5/12/2016 14:08
Sample Description	Ash Pond Down Gradient	Matrix:	Water
Location	Scherer AP		

Parameters	Results	Units	MDL	RL	Prepared	By	Analyzed	By	Qual
TDS	288	mg/L	25	25			5/16/2016 16:55	KLW	

Report ID: 103357 - 5035007
GPC Report Page 24 of 43

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ANALYTICAL RESULTS

Workorder: 103357 CCR - Scherer AP

Lab ID:	103357012	Date Received:	5/13/2016 08:30
Sample ID:	SGWC-20	Date Collected:	5/12/2016 16:17
Sample Description	Ash Pond Down Gradient	Matrix:	Water
Location	Scherer AP		

Parameters	Results	Units	MDL	RL	Prepared	By	Analyzed	By	Qual
Analysis Desc: EPA 6010D			Preparation Method: EPA 3005A						
			Analytical Method: EPA 6010D						
INORGANICS					5/16/2016 10:25	KLW	5/16/2016 18:18	HAM	
Calcium	13.2	mg/L	0.100	0.500	5/16/2016 10:25	KLW	5/16/2016 18:18	HAM	
Analysis Desc: EPA 6020B			Preparation Method: EPA 3005A						
			Analytical Method: EPA 6020B						
TOTAL METALS					5/19/2016 10:00	KLW	5/21/2016 11:10	MRP	
Analysis Desc: EPA 7470A			Preparation Method: EPA 7470A						
			Analytical Method: EPA 7470A						
Mercury	<0.000500	mg/L	0.000250	0.000500	5/17/2016 06:25	WCM	5/17/2016 12:43	WCM	
Analysis Desc: EPA 6020B			Preparation Method: EPA 3005A						
			Analytical Method: EPA 6020B						
Lithium	<0.0500	mg/L	0.0100	0.0500	5/19/2016 10:00	KLW	5/21/2016 11:10	MRP	
Beryllium	0.000742J	mg/L	0.000600	0.00300	5/19/2016 10:00	KLW	5/21/2016 11:10	MRP	
Boron	1.99	mg/L	0.100	0.500	5/19/2016 10:00	KLW	5/21/2016 13:18	MRP	
Chromium	<0.0100	mg/L	0.00200	0.0100	5/19/2016 10:00	KLW	5/21/2016 11:10	MRP	
Cobalt	0.261	mg/L	0.0100	0.0500	5/19/2016 10:00	KLW	5/21/2016 13:18	MRP	
Arsenic	<0.00500	mg/L	0.00100	0.00500	5/19/2016 10:00	KLW	5/21/2016 11:10	MRP	
Selenium	0.00396J	mg/L	0.00200	0.0100	5/19/2016 10:00	KLW	5/21/2016 11:10	MRP	
Molybdenum	<0.0100	mg/L	0.00200	0.0100	5/19/2016 10:00	KLW	5/21/2016 11:10	MRP	
Cadmium	0.000108J	mg/L	0.000100	0.00100	5/19/2016 10:00	KLW	5/21/2016 11:10	MRP	
Antimony	<0.00300	mg/L	0.000600	0.00300	5/19/2016 10:00	KLW	5/21/2016 11:10	MRP	
Barium	0.0436	mg/L	0.00200	0.0100	5/19/2016 10:00	KLW	5/21/2016 11:10	MRP	
Thallium	<0.00100	mg/L	0.000200	0.00100	5/19/2016 10:00	KLW	5/21/2016 11:10	MRP	
Lead	<0.00500	mg/L	0.00100	0.00500	5/19/2016 10:00	KLW	5/21/2016 11:10	MRP	
Analysis Desc: EPA 300			Analytical Method: EPA 300						
TOTAL NUTRIENTS							5/19/2016 19:35	LBB	
Sulfate	255	mg/L	3.00	10.0			5/20/2016 13:54	LBB	
Chloride	10.8	mg/L	0.4000	2.50			5/20/2016 13:54	LBB	
Fluoride	0.2590J	mg/L	0.0100	0.3000			5/19/2016 19:35	LBB	
Analysis Desc: SM 2540C			Analytical Method: SM 2540C						
WET CHEMISTRY							5/16/2016 16:55	KLW	

Report ID: 103357 - 5035007
 GPC Report Page 25 of 43

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ANALYTICAL RESULTS

Workorder: 103357 CCR - Scherer AP

Lab ID:	103357012	Date Received:	5/13/2016 08:30
Sample ID:	SGWC-20	Date Collected:	5/12/2016 16:17
Sample Description	Ash Pond Down Gradient	Matrix:	Water
Location	Scherer AP		

Parameters	Results	Units	MDL	RL	Prepared	By	Analyzed	By	Qual
TDS	386	mg/L	25	25			5/16/2016 16:55	KLW	

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ANALYTICAL RESULTS QUALIFIERS

Workorder: 103357 CCR - Scherer AP

PARAMETER QUALIFIERS

ND	None detected at the laboratory Method Detection Limit
MDL	Method Detection Limit
RL	Reporting Limit
J	The reported value is between the laboratory method detection limit and the laboratory reporting limit

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QUALITY CONTROL DATA

Workorder: 103357 CCR - Scherer AP

QC Batch: GRAV/2868 Analysis Method: SM 2540C
 QC Batch Method: SM 2540C
 Associated Lab Samples: 103329001 103329002 103329003 103329004 103329005 103329006
 103329007 103329008 103329009 103329010 103329011 103357001
 103357002 103357003 103357004

METHOD BLANK: 105903

Parameter	Units	Blank Result	Reporting Limit	Qualifiers
WET CHEMISTRY				
TDS	mg/L	<25	25	

LABORATORY CONTROL SAMPLE: 105906

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
WET CHEMISTRY						
TDS	mg/L	241	226	93.8	90-110	

SAMPLE DUPLICATE: 105905

Original: 103330002

Parameter	Units	Original Result	DUP Result	RPD	Max RPD	Qualifiers
WET CHEMISTRY						
TDS	mg/L	80	84	4.9	20	

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QUALITY CONTROL DATA

Workorder: 103357 CCR - Scherer AP

QC Batch:	DIGM/4309		Analysis Method:	EPA 6010D		
QC Batch Method:	EPA 3005A					
Associated Lab Samples:	103357001	103357002	103357003	103357004	103357005	103357006
	103357007	103357008	103357009	103357010	103357011	103357012
	103367001	103367002	103367003	103367004		

METHOD BLANK: 105940

Parameter	Units	Blank Result	Reporting Limit	Qualifiers
INORGANICS				
Calcium	mg/L	<0.500	0.500	

LABORATORY CONTROL SAMPLE: 105941

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
INORGANICS						
Calcium	mg/L	5	4.84	96.8	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 105942 105943 Original: 103357006

Parameter	Units	Original Result	Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limit	RPD	Max RPD	Qualifiers
INORGANICS											
Calcium	mg/L	0.75	5	5.44	5.41	93.8	93.2	75-125	0.64	20	

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QUALITY CONTROL DATA

Workorder: 103357 CCR - Scherer AP

QC Batch:	IC/3029	Analysis Method:		EPA 300		
QC Batch Method:	EPA 300					
Associated Lab Samples:	103329001	103329002	103329003	103329004	103329005	103329006
	103329007	103329008	103329009	103329010	103329011	103357001
	103357002	103357003	103357004	103357005	103357006	103357007

METHOD BLANK: 105993

Parameter	Units	Blank Result	Reporting Limit	Qualifiers
Chloride	mg/L	<0.2500	0.2500	
Sulfate	mg/L	<1.00	1.00	
Fluoride	mg/L	<0.3000	0.3000	

METHOD BLANK: 106441

Parameter	Units	Blank Result	Reporting Limit	Qualifiers
Chloride	mg/L	<0.2500	0.2500	
Sulfate	mg/L	<1.00	1.00	

LABORATORY CONTROL SAMPLE: 105994

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chloride	mg/L	0.5	0.5150	103	90-110	
Sulfate	mg/L	5	5.06	101	90-110	
Fluoride	mg/L	0.5	0.5330	107	90-110	

LABORATORY CONTROL SAMPLE: 106442

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chloride	mg/L	0.5	0.5080	102	90-110	
Sulfate	mg/L	5	5.05	101	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 105995 105996 Original: 103357003

Parameter	Units	Original Result	Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limit	RPD	Max RPD	Qualifiers
Chloride	mg/L	0.073	1	1.10	1.10	103	103	90-110	0	10	

Report ID: 103357 - 5035007
 GPC Report Page 30 of 43

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QUALITY CONTROL DATA

Workorder: 103357 CCR - Scherer AP

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 105997 105998 Original: 103357003

Parameter	Units	Original Result	Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limit	RPD	Max RPD	Qualifiers
Fluoride	mg/L	0	1	1.06	1.06	106	106	90-110	0	10	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 105999 106000 Original: 103357003

Parameter	Units	Original Result	Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limit	RPD	Max RPD	Qualifiers
Sulfate	mg/L	0	10	10.2	10.3	102	103	90-110	1	10	

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QUALITY CONTROL DATA

Workorder: 103357 CCR - Scherer AP

QC Batch: IC/3030 Analysis Method: EPA 300
 QC Batch Method: EPA 300
 Associated Lab Samples: 103357008 103357009 103357010 103357011 103357012 103367001
 103367002 103367003 103367004

METHOD BLANK: 106003

Parameter	Units	Blank Result	Reporting Limit	Qualifiers
Chloride	mg/L	<0.2500	0.2500	
Sulfate	mg/L	<1.00	1.00	
Fluoride	mg/L	<0.3000	0.3000	

METHOD BLANK: 106013

Parameter	Units	Blank Result	Reporting Limit	Qualifiers
Chloride	mg/L	<0.2500	0.2500	
Sulfate	mg/L	<1.00	1.00	
Fluoride	mg/L	<0.3000	0.3000	

METHOD BLANK: 106272

Parameter	Units	Blank Result	Reporting Limit	Qualifiers
Chloride	mg/L	<0.2500	0.2500	
Sulfate	mg/L	<1.00	1.00	

LABORATORY CONTROL SAMPLE: 106004

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chloride	mg/L	0.5	0.4781	95.6		
Sulfate	mg/L	5	4.90	98		
Fluoride	mg/L	0.5	0.5142	103		

LABORATORY CONTROL SAMPLE: 106006

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chloride	mg/L	11.3	11.4	101	90-110	
Fluoride	mg/L	6.83	6.68	97.8	90-110	

Report ID: 103357 - 5035007
 GPC Report Page 32 of 43

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QUALITY CONTROL DATA

Workorder: 103357 CCR - Scherer AP

LABORATORY CONTROL SAMPLE: 106014

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chloride	mg/L	0.5	0.4600	92		
Sulfate	mg/L	5	4.84	96.7		
Fluoride	mg/L	0.5	0.5061	101		

LABORATORY CONTROL SAMPLE: 106273

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chloride	mg/L	0.5	0.4681	93.6		
Sulfate	mg/L	5	4.89	97.7		

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 106007 106008 Original: 103357010

Parameter	Units	Original Result	Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limit	RPD	Max RPD	Qualifiers
Chloride	mg/L	0.0054	1	0.9777	0.9660	97.2	96.1	90-110	1.1	10	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 106009 106010 Original: 103357010

Parameter	Units	Original Result	Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limit	RPD	Max RPD	Qualifiers
Fluoride	mg/L	0.0025	1	1.04	1.04	104	104	90-110	0	10	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 106011 106012 Original: 103357010

Parameter	Units	Original Result	Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limit	RPD	Max RPD	Qualifiers
Sulfate	mg/L	0	10	10.0	9.98	100	99.8	90-110	0.2	10	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 106019 106020 Original: 103369004

Parameter	Units	Original Result	Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limit	RPD	Max RPD	Qualifiers
Sulfate	mg/L	0.0112	10	10.0	9.98	100	99.6	90-110	0.4	10	

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QUALITY CONTROL DATA

Workorder: 103357 CCR - Scherer AP

QC Batch:	GRAV/2870	Analysis Method:		SM 2540C		
QC Batch Method:	SM 2540C					
Associated Lab Samples:	103357005	103357006	103357007	103357008	103357009	103357010
	103357011	103357012	103367001	103367002	103367003	103367004

METHOD BLANK: 106026

Parameter	Units	Blank Result	Reporting Limit	Qualifiers
WET CHEMISTRY				
TDS	mg/L	<25	25	

LABORATORY CONTROL SAMPLE: 106029

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
WET CHEMISTRY						
TDS	mg/L	241	244	101	90-110	

SAMPLE DUPLICATE: 106027

Original: 103357005

Parameter	Units	Original Result	DUP Result	RPD	Max RPD	Qualifiers
WET CHEMISTRY						
TDS	mg/L	190	190	0	20	

SAMPLE DUPLICATE: 106028

Original: 103369001

Parameter	Units	Original Result	DUP Result	RPD	Max RPD	Qualifiers
WET CHEMISTRY						
TDS	mg/L	142	139	2.1	20	

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QUALITY CONTROL DATA

Workorder: 103357 CCR - Scherer AP

QC Batch:	HGPR/1655	Analysis Method:		EPA 7470A		
QC Batch Method:	EPA 7470A					
Associated Lab Samples:	103357001	103357002	103357003	103357004	103357005	103357006
	103357007	103357008	103357009	103357010	103357011	103357012
	103367001	103367002	103367003	103367004		

METHOD BLANK: 106030

Parameter	Units	Blank Result	Reporting Limit	Qualifiers
TOTAL METALS				
Mercury	mg/L	<0.000500	0.000500	

METHOD BLANK: 106036

Parameter	Units	Blank Result	Reporting Limit	Qualifiers
TOTAL METALS				
Mercury	mg/L	<0.000500	0.000500	

LABORATORY CONTROL SAMPLE: 106031

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
TOTAL METALS						
Mercury	mg/L	0.002	0.00204	102	80-120	

LABORATORY CONTROL SAMPLE: 106032

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
TOTAL METALS						
Mercury	mg/L	0.0122	0.0126	103	80-120	

LABORATORY CONTROL SAMPLE: 106037

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
TOTAL METALS						
Mercury	mg/L	0.002	0.00201	100	80-120	

Report ID: 103357 - 5035007
 GPC Report Page 35 of 43

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QUALITY CONTROL DATA

Workorder: 103357 CCR - Scherer AP

QC Batch:	DIGM/4313		Analysis Method:	EPA 6020B		
QC Batch Method:	EPA 3005A					
Associated Lab Samples:	103357001	103357002	103357003	103357004	103357005	103357006
	103357007	103357008	103357009	103357010	103357011	103357012
	103367001	103367002	103367003	103367004		

METHOD BLANK: 106122

Parameter	Units	Blank Result	Reporting Limit	Qualifiers
TOTAL METALS				
Lithium	mg/L	<0.0500	0.0500	
Beryllium	mg/L	<0.00300	0.00300	
Boron	mg/L	<0.100	0.100	
Chromium	mg/L	<0.0100	0.0100	
Cobalt	mg/L	<0.0100	0.0100	
Arsenic	mg/L	<0.00500	0.00500	
Selenium	mg/L	<0.0100	0.0100	
Molybdenum	mg/L	<0.0100	0.0100	
Cadmium	mg/L	<0.00100	0.00100	
Antimony	mg/L	<0.00300	0.00300	
Barium	mg/L	<0.0100	0.0100	
Thallium	mg/L	<0.00100	0.00100	
Lead	mg/L	<0.00500	0.00500	

LABORATORY CONTROL SAMPLE: 106123

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
TOTAL METALS						
Lithium	mg/L	0.2	0.208	104	80-120	
Beryllium	mg/L	0.1	0.100	100	80-120	
Boron	mg/L	0.1	0.103	103	80-120	
Chromium	mg/L	0.1	0.104	104	80-120	
Cobalt	mg/L	0.1	0.104	104	80-120	
Arsenic	mg/L	0.1	0.101	101	80-120	
Selenium	mg/L	0.1	0.0970	97	80-120	
Molybdenum	mg/L	0.1	0.100	100	80-120	
Cadmium	mg/L	0.1	0.102	102	80-120	
Antimony	mg/L	0.1	0.103	103	80-120	
Barium	mg/L	0.1	0.0998	99.8	80-120	
Thallium	mg/L	0.1	0.0939	93.9	80-120	
Lead	mg/L	0.1	0.102	102	80-120	

Report ID: 103357 - 5035007
 GPC Report Page 37 of 43

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QUALITY CONTROL DATA

Workorder: 103357 CCR - Scherer AP

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 106124 106125 Original: 103357005

Parameter	Units	Original Result	Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limit	RPD	Max RPD	Qualifiers
TOTAL METALS											
Lithium	mg/L	0.00044	0.2	0.204	0.202	102	101	75-125	0.99	20	
Beryllium	mg/L	8e-006	0.1	0.0983	0.0994	98.3	99.4	75-125	1.1	20	
Chromium	mg/L	0.00031	0.1	0.105	0.101	104	101	75-125	2.9	20	
Cobalt	mg/L	0.0145	0.1	0.119	0.116	104	102	75-125	1.9	20	
Arsenic	mg/L	0.00033	0.1	0.102	0.0996	101	99.3	75-125	1.7	20	
Selenium	mg/L	0.00038	0.1	0.101	0.0974	101	97	75-125	4	20	
Molybdenum	mg/L	0.00035	0.1	0.106	0.103	105	103	75-125	1.9	20	
Cadmium	mg/L	3e-006	0.1	0.103	0.101	103	101	75-125	2	20	
Antimony	mg/L	0.00025	0.1	0.106	0.101	105	101	75-125	3.9	20	
Barium	mg/L	0.0198	0.1	0.121	0.123	101	104	75-125	2.9	20	
Thallium	mg/L	1e-005	0.1	0.0946	0.0927	94.6	92.7	75-125	2	20	
Lead	mg/L	2e-005	0.1	0.102	0.100	102	100	75-125	2	20	

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QUALITY CONTROL DATA

Workorder: 103357 CCR - Scherer AP

QC Batch: DIGM/4325 Analysis Method: EPA 6020B
 QC Batch Method: EPA 3005A
 Associated Lab Samples: 103357005

METHOD BLANK: 106286

Parameter	Units	Blank Result	Reporting Limit Qualifiers
TOTAL METALS			
Boron	mg/L	<0.100	0.100

LABORATORY CONTROL SAMPLE: 106287

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits Qualifiers
TOTAL METALS					
Boron	mg/L	0.3	0.294	98	80-120

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 106124 106125 Original: 103357005

Parameter	Units	Original Result	Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limit	RPD	Max RPD	Qualifiers
TOTAL METALS											
Boron	mg/L	0.599	0.6	1.18	1.14	96.6	90	75-125	7.1	20	

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Workorder: 103357 CCR - Scherer AP

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
103357001	SGWC-14	SM 2540C	GRAV/2868		
103357002	SGWC-17	SM 2540C	GRAV/2868		
103357003	Field Blank-6	SM 2540C	GRAV/2868		
103357004	SGWC-21	SM 2540C	GRAV/2868		
103357001	SGWC-14	EPA 3005A	DIGM/4309	EPA 6010D	ICP/5010
103357002	SGWC-17	EPA 3005A	DIGM/4309	EPA 6010D	ICP/5010
103357003	Field Blank-6	EPA 3005A	DIGM/4309	EPA 6010D	ICP/5010
103357004	SGWC-21	EPA 3005A	DIGM/4309	EPA 6010D	ICP/5010
103357005	SGWC-13	EPA 3005A	DIGM/4309	EPA 6010D	ICP/5010
103357006	SGWC-16	EPA 3005A	DIGM/4309	EPA 6010D	ICP/5010
103357007	SGWC-22	EPA 3005A	DIGM/4309	EPA 6010D	ICP/5010
103357008	Field Blank 7	EPA 3005A	DIGM/4309	EPA 6010D	ICP/5010
103357009	SGWC-15	EPA 3005A	DIGM/4309	EPA 6010D	ICP/5010
103357010	EQB-6	EPA 3005A	DIGM/4309	EPA 6010D	ICP/5010
103357011	SGWC-23	EPA 3005A	DIGM/4309	EPA 6010D	ICP/5010
103357012	SGWC-20	EPA 3005A	DIGM/4309	EPA 6010D	ICP/5010
103357001	SGWC-14	EPA 300	IC/3029		
103357002	SGWC-17	EPA 300	IC/3029		
103357003	Field Blank-6	EPA 300	IC/3029		
103357004	SGWC-21	EPA 300	IC/3029		
103357005	SGWC-13	EPA 300	IC/3029		
103357006	SGWC-16	EPA 300	IC/3029		
103357007	SGWC-22	EPA 300	IC/3029		
103357008	Field Blank 7	EPA 300	IC/3030		
103357009	SGWC-15	EPA 300	IC/3030		
103357010	EQB-6	EPA 300	IC/3030		
103357011	SGWC-23	EPA 300	IC/3030		
103357012	SGWC-20	EPA 300	IC/3030		
103357005	SGWC-13	SM 2540C	GRAV/2870		

Report ID: 103357 - 5035007
 GPC Report Page 40 of 43

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Workorder: 103357 CCR - Scherer AP

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
103357006	SGWC-16	SM 2540C	GRAV/2870		
103357007	SGWC-22	SM 2540C	GRAV/2870		
103357008	Field Blank 7	SM 2540C	GRAV/2870		
103357009	SGWC-15	SM 2540C	GRAV/2870		
103357010	EQB-6	SM 2540C	GRAV/2870		
103357011	SGWC-23	SM 2540C	GRAV/2870		
103357012	SGWC-20	SM 2540C	GRAV/2870		
103357001	SGWC-14	EPA 7470A	HGPR/1655	EPA 7470A	CVAA/1841
103357002	SGWC-17	EPA 7470A	HGPR/1655	EPA 7470A	CVAA/1841
103357003	Field Blank-6	EPA 7470A	HGPR/1655	EPA 7470A	CVAA/1841
103357004	SGWC-21	EPA 7470A	HGPR/1655	EPA 7470A	CVAA/1841
103357005	SGWC-13	EPA 7470A	HGPR/1655	EPA 7470A	CVAA/1841
103357006	SGWC-16	EPA 7470A	HGPR/1655	EPA 7470A	CVAA/1841
103357007	SGWC-22	EPA 7470A	HGPR/1655	EPA 7470A	CVAA/1841
103357008	Field Blank 7	EPA 7470A	HGPR/1655	EPA 7470A	CVAA/1841
103357009	SGWC-15	EPA 7470A	HGPR/1655	EPA 7470A	CVAA/1841
103357010	EQB-6	EPA 7470A	HGPR/1655	EPA 7470A	CVAA/1841
103357011	SGWC-23	EPA 7470A	HGPR/1655	EPA 7470A	CVAA/1841
103357012	SGWC-20	EPA 7470A	HGPR/1655	EPA 7470A	CVAA/1841
103357001	SGWC-14	EPA 3005A	DIGM/4313	EPA 6020B	ICPM/1060
103357002	SGWC-17	EPA 3005A	DIGM/4313	EPA 6020B	ICPM/1060
103357003	Field Blank-6	EPA 3005A	DIGM/4313	EPA 6020B	ICPM/1060
103357004	SGWC-21	EPA 3005A	DIGM/4313	EPA 6020B	ICPM/1060
103357005	SGWC-13	EPA 3005A	DIGM/4313	EPA 6020B	ICPM/1060
103357006	SGWC-16	EPA 3005A	DIGM/4313	EPA 6020B	ICPM/1060
103357007	SGWC-22	EPA 3005A	DIGM/4313	EPA 6020B	ICPM/1060
103357008	Field Blank 7	EPA 3005A	DIGM/4313	EPA 6020B	ICPM/1060
103357009	SGWC-15	EPA 3005A	DIGM/4313	EPA 6020B	ICPM/1060
103357010	EQB-6	EPA 3005A	DIGM/4313	EPA 6020B	ICPM/1060
103357011	SGWC-23	EPA 3005A	DIGM/4313	EPA 6020B	ICPM/1060
103357012	SGWC-20	EPA 3005A	DIGM/4313	EPA 6020B	ICPM/1060

Report ID: 103357 - 5035007
 GPC Report Page 41 of 43

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Workorder: 103357 CCR - Scherer AP

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
103357005	SGWC-13	EPA 3005A	DIGM/4325	EPA 6020B	ICPM/1070

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LABORATORY CERTIFICATIONS

Workorder: 103357 CCR - Scherer AP

Certification Program	Certification Number
NELAC	E57554

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Georgia Power Environmental Laboratory
 NELAP Certification #E57554
 2480 Maner Road, BIN 39110
 Atlanta, Georgia 30339
 Phone: (404) 799-2100
 Company: 8-530-2100

ANALYSIS REQUEST AND CHAIN OF CUSTODY RECORD

LAB USE ONLY

Work Order No. 109357
 Reviewed By: R/S 5-13-16

Page 1 of 1

Sample Shipment Date:⁸ 5/13/16 Standard Turnaround Time

Sample Received Date:⁹ _____
 Sampled By:¹⁰ Rachel Samuels # of Business Days (Flush) _____
 (Must be cleared through Env. Lab. Prior to shipment)

Company:¹ Southern Company Services
 Report To: Joju Abraham
 Address:² 241 Ralph McGill Blvd SE B10185
 Atlanta, GA 30308
 Phone/Fax:³ 404-506-7239
 Contact:⁴ Joju Abraham
 Project Location:⁵ Plant Scherer
 Account Number:⁶ _____
 Special Instructions:⁷ Scherer AP CCR GW

LAB USE ONLY LAB ID	Sample Number ¹⁴	Collection ¹⁵		Sample Description ¹⁶	Sample Type ¹⁷	Matrix ¹⁸	No. of Containers ¹⁹	ANALYSIS REQUESTED ²¹			PRESERVATIVE ²⁰			Sample Type Key: ²²
		Date	Time					HNO3	Ice	HNO3	G-Grab	O-Other	C-Composite	
	109357001	5/12/16	853	Ash Pond, down gradient	G	GW	3	EPA 6020 & EPA 7470 Metals app. III & IV	CI, F, SO4 EPA 300 TDS SM2540C	Radium 226 & 228 Ga Tech				
	2 SGWC-17	5/12/16	1055	Ash Pond, down gradient	G	GW	3							
	3 Field Blank-G	5/12/16	1021	Field Blank-G	G	DW	3							
	4 SGWC-21	5/12/16	1402	Ash Pond, down gradient	G	GW	3							

Signature: Rachel Samuels
 Authorization to subcontractor analysis will be assumed acceptable by customer unless stated otherwise.

Relinquished by:²⁶ Rachel Samuels Date/Time: 5/13/16 16:00
 Received by:²⁷ [Signature] Date/Time: 5/13/16 17:00
 Relinquished by: [Signature] Date/Time: 5/13/16 08:21
 Received by: [Signature] Date/Time: 5-13-16 09:50

LAB USE ONLY - Sample Receipt Information²⁸
 3-8-C (GPFL-1R-4P) with ice cooling bag and Condition seal PH22
 Courier

Georgia Power Environmental Laboratory

NELAP Certification #E57554

2480 Maner Road, BIN 39110

Atlanta, Georgia 30339

Phone: (404) 799-2100

Company: 8-530-2100

Company: Southern Company Services

Report To Joju Abraham

Address: 241 Ralph McGill Blvd SE B10185

Atlanta, GA 30308

Phone/Fax: 404-506-7239

Contact: Joju Abraham

Plant Scherer

Project Location: 5

Account Number: 6

Special Instructions: Scherer AP CCR GW

ANALYSIS REQUEST AND CHAIN OF CUSTODY RECORD

Work Order No. 103357

Reviewed By: [Signature]

5-13-16

Page 1 of 1

Sample Shipment Date: 8 5/13/16

Sample Received Date: 9

Sampled By: 10 Ron Hilliard

Standard Turnaround Time

of Business Days (Rush) (Must be cleared through Env. Lab. Prior to shipment)

LAB USE ONLY LAB ID	Sample Number ¹⁴	Collection ¹⁵		Sample Description ¹⁶	Sample Type ¹⁷	Matrix ¹⁸	No. of Containers ¹⁹	ANALYSIS REQUESTED ²¹			PRESERVATIVE ²⁰			Sample Type Key: 22	Comments
		Date	Time					HNO3	Ice	HNO3	G-Grab	O-Other	C-Composite		
103357005	SGWC-13	5/12/16	10:09	Ash Pond, down gradient	G	GWL	3	1	1	1	1	1	1	1	
6	SGWC-16	5/12/16	13:47	Ash Pond, down gradient	G	GWL	3	1	1	1	1	1	1	1	
7	SGWC-22	5/12/16	18:30	Ash Pond, down gradient	G	GWL	3	1	1	1	1	1	1	1	
8	Field Blank 7	5/12/16	18:50	QC: Field Blank	G	DW	3	1	1	1	1	1	1	1	

LAB USE ONLY: Sample Receipt Information²⁸

Relinquished by: 26 [Signature] Date/Time 5/13/16 2:00

Received by: 27 [Signature] Date/Time 5/13/16 2:00

Relinquished by: [Signature] Date/Time 5/13/16 2:00

Received by: [Signature] Date/Time 5-13-16 2:30

3-8°C GPEL-18-4PL With Ice, cooler in good condition, seal PHLZ, Cameron.

Georgia Power Environmental Laboratory
 NELAP Certification #E57554
 2480 Maner Road, BIN 39110
 Atlanta, Georgia 30339
 Phone: (404) 799-2100
 Company: 8-530-2100

**ANALYSIS REQUEST AND
 CHAIN OF CUSTODY RECORD**

LAB USE ONLY

Work Order No. 103357
 Reviewed By: [Signature] 5-13-16
 Page 1 of 1

Sample Shipment Date:⁸ 5/13/16 Standard Turnaround Time
 Sample Received Date:⁹ _____
 Sampled By:¹⁰ Charles Watson # of Business Days (Rush)
 (Must be cleared through Env. Lab. Prior to shipment)

Company:¹ Southern Company Services
 Report To: Joju Abraham
 Address:² 241 Ralph McGill Blvd SE B10185
 Atlanta, GA 30308
 Phone/Fax:³ 404-506-7239
 Contact:⁴ Joju Abraham
 Project Location:⁵ Plant Scherer
 Account Number:⁶ _____
 Special Instructions:⁷ Scherer AP CCR GW

LAB USE ONLY LAB ID	Sample Number ¹⁴	Collection ¹⁵		Sample Description ¹⁶	Sample Type ¹⁷	Matrix ¹⁸	No. of Containers ¹⁹	ANALYSIS REQUESTED ²¹			PRESERVATIVE ²⁰	Sample Type Key: ²² G-Grab O-Other C-Composite Matrix Key: ²³ O-Oil S-Solid SL-Sludge W-Wipe SW-Surface Water GW-Ground Water WW-Waste Water DW-Drinking Water Preservative Key: ²⁴ H-Hydrochloric Acid N-Nitric Acid S-Sulfuric Acid SH-Sodium Hydroxide SB-Sodium Bisulfate P-Phosphoric Acid ST-Sodium Thiosulfate I-Ice U-Ultrapreserv	LAB USE ONLY ²⁵ Comments	
		Date	Time					HNO3	Ice	HNO3				
103357009	SGWC-15	5/12/16	1019	Ashpent down gradient	G	GW	3	X	X	X				
	EQB-6	5/12/16	1130	Equipment blank	G	DW	3	X	X					
	SGWC-23	5/12/16	1408	Ash pond down gradient	G	GW	3	X	X	X				
	SGWC-20	5/12/16	1617	Ash pond down gradient	G	GW	3	X	X	X				

LAB USE ONLY: Sample Receipt Information ²⁸
 Relinquished by: ²⁶ [Signature] Date/Time 5/13/16 700
 Received by: ²⁷ [Signature] Date/Time 5/13/16 0700
 Relinquished by: [Signature] Date/Time 5/13/16 0824
 Received by: [Signature] Date/Time 5-13-16 0830
 3-8 E (GPE)-1R-4P, raw thice, coker in good condition, seal
 PHL 2nd Courier

Sample Receipt Checklist

Client: Scherer
Workorder No.: 103357
Carrier: COURIER

of Samples: 12
Tracking No:

Question	Answer	Comment
Radioactivity wasn't checked or is <= background as measured by a survey meter	True	
Custody seals were present on cooler	True	
Custody seals on cooler were intact	True	
Custody seals were present on sample	False	
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	3.8
COC is present	True	
COC is filled out in ink and is legible	True	Overwrite present on COC.
COC is filled out with pertinent information	True	
The field sampler's name is on the COC	True	
Sample containers have legible labels	True	
Information on the sample label agrees with information on the COC	True	
Samples are received within holding times	True	
Containers are not broken or leaking	True	
Sample collection date/times are present	True	
Appropriate sample containers are used	True	
Sample bottles are completely filled	True	
Sample preservation is checked	True	
Sample preservation is acceptable	True	
There is sufficient sample volume for all requested analyses	True	
Containers requiring zero headspace have no headspace or the bubble is < 6mm (1/4 inch)	True	
Multiphasic samples are not present	True	
Samples do not require splitting or compositing	True	

Receiving Narrative:

June 3, 2016

Joju Abraham
Southern Company Services
Earth Sciences & Env Eng
42 Inverness Center Parkway
Birmingham, AL 35242

RE: Workorder: 103367 CCR - Scherer AP

Dear Joju Abraham:

The Environmental Laboratory has completed the analysis of your samples and reports the results on the attached pages. Our laboratory maintains current NELAC accreditation for those analytes listed under the scope of accreditation. Analytes not listed in this scope are currently not maintained under an accreditation program. The analytes of this report that are listed under our NELAC scope of accreditation meet all requirements of the NELAC standards, unless otherwise noted by data qualifiers. Internal clients can view the scope and effective dates of our accreditation at:

<http://environmental.southernco.com/gpc/environmental-lab/chem.html>

External clients can receive a copy of our scope of accreditation by contacting the laboratory.

All results relate only to the contents of the samples submitted. Samples will be disposed of after 30 days unless otherwise instructed. This report should only be reproduced in full with all associated records. 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.

If you have any questions or comments, contact your Program Manager:

Maria Padilla

mrpadill@southernco.com

(404) 799-2188 / 8-530-2188

Respectfully submitted,



R. S. Dickerson
rsdicker@southernco.com
QA/QC Specialist

Report ID: 103367 - 5034960
GPC Report Page 1 of 20

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SAMPLE SUMMARY

Workorder: 103367 CCR - Scherer AP

Lab ID	Sample ID	Analysis Request Number	Matrix	Date Collected	Date Received
103367001	SGWC-19	N/A	Water	5/13/2016 09:12	5/13/2016 13:35
103367002	Dup-7	N/A	Water	5/13/2016 00:00	5/13/2016 13:35
103367003	SGWC-18	N/A	Water	5/13/2016 09:23	5/13/2016 13:35
103367004	EQB-7	N/A	Water	5/13/2016 10:20	5/13/2016 13:35

Report ID: 103367 - 5034960
GPC Report Page 2 of 20

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ANALYTICAL RESULTS

Workorder: 103367 CCR - Scherer AP

Lab ID:	103367001	Date Received:	5/13/2016 13:35
Sample ID:	SGWC-19	Date Collected:	5/13/2016 09:12
Sample Description	Ash Pond Down Gradient	Matrix:	Water
Location	Scherer AP		

Parameters	Results	Units	MDL	RL	Prepared	By	Analyzed	By	Qual
Analysis Desc: EPA 6010D			Preparation Method: EPA 3005A						
			Analytical Method: EPA 6010D						
INORGANICS					5/16/2016 10:25	KLW	5/16/2016 18:24	HAM	
Calcium	35.3	mg/L	0.100	0.500	5/16/2016 10:25	KLW	5/16/2016 18:24	HAM	
Analysis Desc: EPA 6020B			Preparation Method: EPA 3005A						
			Analytical Method: EPA 6020B						
TOTAL METALS					5/19/2016 10:00	KLW	5/21/2016 11:15	MRP	
Analysis Desc: EPA 7470A			Preparation Method: EPA 7470A						
			Analytical Method: EPA 7470A						
Mercury	<0.000500	mg/L	0.000250	0.000500	5/17/2016 06:25	WCM	5/17/2016 12:48	WCM	
Analysis Desc: EPA 6020B			Preparation Method: EPA 3005A						
			Analytical Method: EPA 6020B						
Lithium	<0.0500	mg/L	0.0100	0.0500	5/19/2016 10:00	KLW	5/21/2016 11:15	MRP	
Beryllium	<0.00300	mg/L	0.000600	0.00300	5/19/2016 10:00	KLW	5/21/2016 11:15	MRP	
Boron	1.87	mg/L	0.100	0.500	5/19/2016 10:00	KLW	5/21/2016 13:02	MRP	
Chromium	0.0151	mg/L	0.00200	0.0100	5/19/2016 10:00	KLW	5/21/2016 11:15	MRP	
Cobalt	<0.0100	mg/L	0.00200	0.0100	5/19/2016 10:00	KLW	5/21/2016 11:15	MRP	
Arsenic	<0.00500	mg/L	0.00100	0.00500	5/19/2016 10:00	KLW	5/21/2016 11:15	MRP	
Selenium	<0.0100	mg/L	0.00200	0.0100	5/19/2016 10:00	KLW	5/21/2016 11:15	MRP	
Molybdenum	<0.0100	mg/L	0.00200	0.0100	5/19/2016 10:00	KLW	5/21/2016 11:15	MRP	
Cadmium	<0.00100	mg/L	0.000100	0.00100	5/19/2016 10:00	KLW	5/21/2016 11:15	MRP	
Antimony	<0.00300	mg/L	0.000600	0.00300	5/19/2016 10:00	KLW	5/21/2016 11:15	MRP	
Barium	0.0507	mg/L	0.00200	0.0100	5/19/2016 10:00	KLW	5/21/2016 11:15	MRP	
Thallium	<0.00100	mg/L	0.000200	0.00100	5/19/2016 10:00	KLW	5/21/2016 11:15	MRP	
Lead	<0.00500	mg/L	0.00100	0.00500	5/19/2016 10:00	KLW	5/21/2016 11:15	MRP	
Analysis Desc: EPA 300			Analytical Method: EPA 300						
TOTAL NUTRIENTS							5/19/2016 20:05	LBB	
Sulfate	212	mg/L	3.00	10.0			5/20/2016 14:24	LBB	
Chloride	8.16	mg/L	0.4000	2.50			5/20/2016 14:24	LBB	
Fluoride	0.0126J	mg/L	0.0100	0.3000			5/19/2016 20:05	LBB	
Analysis Desc: SM 2540C			Analytical Method: SM 2540C						
WET CHEMISTRY							5/16/2016 16:55	KLW	

Report ID: 103367 - 5034960
 GPC Report Page 3 of 20

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ANALYTICAL RESULTS

Workorder: 103367 CCR - Scherer AP

Lab ID:	103367001	Date Received:	5/13/2016 13:35
Sample ID:	SGWC-19	Date Collected:	5/13/2016 09:12
Sample Description	Ash Pond Down Gradient	Matrix:	Water
Location	Scherer AP		

Parameters	Results	Units	MDL	RL	Prepared	By	Analyzed	By	Qual
TDS	366	mg/L	25	25			5/16/2016 16:55	KLW	

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ANALYTICAL RESULTS

Workorder: 103367 CCR - Scherer AP

Lab ID:	103367002	Date Received:	5/13/2016 13:35
Sample ID:	Dup-7	Date Collected:	5/13/2016 00:00
Sample Description	QC Field Duplicate	Matrix:	Water
Location	Scherer AP		

Parameters	Results	Units	MDL	RL	Prepared	By	Analyzed	By	Qual
Analysis Desc: EPA 6010D		Preparation Method: EPA 3005A							
		Analytical Method: EPA 6010D							
INORGANICS					5/16/2016 10:25	KLW	5/16/2016 18:30	HAM	
Calcium	35.2	mg/L	0.100	0.500	5/16/2016 10:25	KLW	5/16/2016 18:30	HAM	
Analysis Desc: EPA 6020B		Preparation Method: EPA 3005A							
		Analytical Method: EPA 6020B							
TOTAL METALS					5/19/2016 10:00	KLW	5/21/2016 11:39	MRP	
Analysis Desc: EPA 7470A		Preparation Method: EPA 7470A							
		Analytical Method: EPA 7470A							
Mercury	<0.000500	mg/L	0.000250	0.000500	5/17/2016 06:25	WCM	5/17/2016 12:51	WCM	
Analysis Desc: EPA 6020B		Preparation Method: EPA 3005A							
		Analytical Method: EPA 6020B							
Lithium	<0.0500	mg/L	0.0100	0.0500	5/19/2016 10:00	KLW	5/21/2016 11:39	MRP	
Beryllium	<0.00300	mg/L	0.000600	0.00300	5/19/2016 10:00	KLW	5/21/2016 11:39	MRP	
Boron	1.82	mg/L	0.100	0.500	5/19/2016 10:00	KLW	5/21/2016 12:50	MRP	
Chromium	0.0143	mg/L	0.00200	0.0100	5/19/2016 10:00	KLW	5/21/2016 11:39	MRP	
Cobalt	<0.0100	mg/L	0.00200	0.0100	5/19/2016 10:00	KLW	5/21/2016 11:39	MRP	
Arsenic	<0.00500	mg/L	0.00100	0.00500	5/19/2016 10:00	KLW	5/21/2016 11:39	MRP	
Selenium	<0.0100	mg/L	0.00200	0.0100	5/19/2016 10:00	KLW	5/21/2016 11:39	MRP	
Molybdenum	<0.0100	mg/L	0.00200	0.0100	5/19/2016 10:00	KLW	5/21/2016 11:39	MRP	
Cadmium	<0.00100	mg/L	0.000100	0.00100	5/19/2016 10:00	KLW	5/21/2016 11:39	MRP	
Antimony	<0.00300	mg/L	0.000600	0.00300	5/19/2016 10:00	KLW	5/21/2016 11:39	MRP	
Barium	0.0500	mg/L	0.00200	0.0100	5/19/2016 10:00	KLW	5/21/2016 11:39	MRP	
Thallium	<0.00100	mg/L	0.000200	0.00100	5/19/2016 10:00	KLW	5/21/2016 11:39	MRP	
Lead	<0.00500	mg/L	0.00100	0.00500	5/19/2016 10:00	KLW	5/21/2016 11:39	MRP	
Analysis Desc: EPA 300		Analytical Method: EPA 300							
TOTAL NUTRIENTS							5/19/2016 20:34	LBB	
Sulfate	212	mg/L	3.00	10.0			5/20/2016 14:54	LBB	
Chloride	7.63	mg/L	0.4000	2.50			5/20/2016 14:54	LBB	
Fluoride	0.0122J	mg/L	0.0100	0.3000			5/19/2016 20:34	LBB	
Analysis Desc: SM 2540C		Analytical Method: SM 2540C							
WET CHEMISTRY							5/16/2016 16:55	KLW	

Report ID: 103367 - 5034960
 GPC Report Page 5 of 20

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ANALYTICAL RESULTS

Workorder: 103367 CCR - Scherer AP

Lab ID:	103367002	Date Received:	5/13/2016 13:35
Sample ID:	Dup-7	Date Collected:	5/13/2016 00:00
Sample Description	QC Field Duplicate	Matrix:	Water
Location	Scherer AP		

Parameters	Results	Units	MDL	RL	Prepared	By	Analyzed	By	Qual
TDS	359	mg/L	25	25			5/16/2016 16:55	KLW	

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ANALYTICAL RESULTS

Workorder: 103367 CCR - Scherer AP

Lab ID:	103367003	Date Received:	5/13/2016 13:35
Sample ID:	SGWC-18	Date Collected:	5/13/2016 09:23
Sample Description	Ash Pond-Down Gradient	Matrix:	Water
Location	Scherer AP		

Parameters	Results	Units	MDL	RL	Prepared	By	Analyzed	By	Qual
Analysis Desc: EPA 6010D		Preparation Method: EPA 3005A							
		Analytical Method: EPA 6010D							
INORGANICS					5/16/2016 10:25	KLW	5/17/2016 14:29	HAM	
Calcium	56.9	mg/L	0.200	1.00	5/16/2016 10:25	KLW	5/17/2016 14:29	HAM	
Analysis Desc: EPA 6020B		Preparation Method: EPA 3005A							
		Analytical Method: EPA 6020B							
TOTAL METALS					5/19/2016 10:00	KLW	5/21/2016 11:43	MRP	
Analysis Desc: EPA 7470A		Preparation Method: EPA 7470A							
		Analytical Method: EPA 7470A							
Mercury	<0.000500	mg/L	0.000250	0.000500	5/17/2016 06:25	WCM	5/17/2016 12:54	WCM	
Analysis Desc: EPA 6020B		Preparation Method: EPA 3005A							
		Analytical Method: EPA 6020B							
Lithium	<0.0500	mg/L	0.0100	0.0500	5/19/2016 10:00	KLW	5/21/2016 11:43	MRP	
Beryllium	<0.00300	mg/L	0.000600	0.00300	5/19/2016 10:00	KLW	5/21/2016 11:43	MRP	
Boron	3.71	mg/L	0.200	1.00	5/19/2016 10:00	KLW	5/21/2016 12:26	MRP	
Chromium	0.00771J	mg/L	0.00200	0.0100	5/19/2016 10:00	KLW	5/21/2016 11:43	MRP	
Cobalt	0.116	mg/L	0.00200	0.0100	5/19/2016 10:00	KLW	5/21/2016 11:43	MRP	
Arsenic	0.00161J	mg/L	0.00100	0.00500	5/19/2016 10:00	KLW	5/21/2016 11:43	MRP	
Selenium	0.0230	mg/L	0.00200	0.0100	5/19/2016 10:00	KLW	5/21/2016 11:43	MRP	
Molybdenum	<0.0100	mg/L	0.00200	0.0100	5/19/2016 10:00	KLW	5/21/2016 11:43	MRP	
Cadmium	0.000160J	mg/L	0.000100	0.00100	5/19/2016 10:00	KLW	5/21/2016 11:43	MRP	
Antimony	<0.00300	mg/L	0.000600	0.00300	5/19/2016 10:00	KLW	5/21/2016 11:43	MRP	
Barium	0.0138	mg/L	0.00200	0.0100	5/19/2016 10:00	KLW	5/21/2016 11:43	MRP	
Thallium	<0.00100	mg/L	0.000200	0.00100	5/19/2016 10:00	KLW	5/21/2016 11:43	MRP	
Lead	<0.00500	mg/L	0.00100	0.00500	5/19/2016 10:00	KLW	5/21/2016 11:43	MRP	
Analysis Desc: EPA 300		Analytical Method: EPA 300							
TOTAL NUTRIENTS							5/19/2016 21:04	LBB	
Sulfate	484	mg/L	3.00	10.0			5/20/2016 15:54	LBB	L1
Chloride	4.87	mg/L	0.2000	1.25			5/20/2016 15:24	LBB	
Fluoride	0.0343J	mg/L	0.0100	0.3000			5/19/2016 21:04	LBB	
Analysis Desc: SM 2540C		Analytical Method: SM 2540C							
WET CHEMISTRY							5/16/2016 16:55	KLW	

Report ID: 103367 - 5034960
 GPC Report Page 7 of 20

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ANALYTICAL RESULTS

Workorder: 103367 CCR - Scherer AP

Lab ID:	103367003	Date Received:	5/13/2016 13:35
Sample ID:	SGWC-18	Date Collected:	5/13/2016 09:23
Sample Description	Ash Pond-Down Gradient	Matrix:	Water
Location	Scherer AP		

Parameters	Results	Units	MDL	RL	Prepared	By	Analyzed	By	Qual
TDS	728	mg/L	25	25			5/16/2016 16:55	KLW	

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ANALYTICAL RESULTS

Workorder: 103367 CCR - Scherer AP

Lab ID:	103367004	Date Received:	5/13/2016 13:35
Sample ID:	EQB-7	Date Collected:	5/13/2016 10:20
Sample Description	Equipment Blank	Matrix:	Water
Location	Scherer AP		

Parameters	Results	Units	MDL	RL	Prepared	By	Analyzed	By	Qual
Analysis Desc: EPA 6010D			Preparation Method: EPA 3005A						
			Analytical Method: EPA 6010D						
INORGANICS					5/16/2016 10:25	KLW	5/16/2016 18:42	HAM	
Calcium	<0.500	mg/L	0.100	0.500	5/16/2016 10:25	KLW	5/16/2016 18:42	HAM	
Analysis Desc: EPA 6020B			Preparation Method: EPA 3005A						
			Analytical Method: EPA 6020B						
TOTAL METALS					5/19/2016 10:00	KLW	5/21/2016 11:48	MRP	
Analysis Desc: EPA 7470A			Preparation Method: EPA 7470A						
			Analytical Method: EPA 7470A						
Mercury	<0.000500	mg/L	0.000250	0.000500	5/17/2016 06:25	WCM	5/17/2016 12:56	WCM	
Analysis Desc: EPA 6020B			Preparation Method: EPA 3005A						
			Analytical Method: EPA 6020B						
Lithium	<0.0500	mg/L	0.0100	0.0500	5/19/2016 10:00	KLW	5/21/2016 11:48	MRP	
Beryllium	<0.00300	mg/L	0.000600	0.00300	5/19/2016 10:00	KLW	5/21/2016 11:48	MRP	
Boron	<0.100	mg/L	0.0200	0.100	5/19/2016 10:00	KLW	5/24/2016 17:21	ELS	
Chromium	<0.0100	mg/L	0.00200	0.0100	5/19/2016 10:00	KLW	5/21/2016 11:48	MRP	
Cobalt	<0.0100	mg/L	0.00200	0.0100	5/19/2016 10:00	KLW	5/21/2016 11:48	MRP	
Arsenic	<0.00500	mg/L	0.00100	0.00500	5/19/2016 10:00	KLW	5/21/2016 11:48	MRP	
Selenium	<0.0100	mg/L	0.00200	0.0100	5/19/2016 10:00	KLW	5/21/2016 11:48	MRP	
Molybdenum	<0.0100	mg/L	0.00200	0.0100	5/19/2016 10:00	KLW	5/21/2016 11:48	MRP	
Cadmium	<0.00100	mg/L	0.000100	0.00100	5/19/2016 10:00	KLW	5/21/2016 11:48	MRP	
Antimony	<0.00300	mg/L	0.000600	0.00300	5/19/2016 10:00	KLW	5/21/2016 11:48	MRP	
Barium	<0.0100	mg/L	0.00200	0.0100	5/19/2016 10:00	KLW	5/21/2016 11:48	MRP	
Thallium	<0.00100	mg/L	0.000200	0.00100	5/19/2016 10:00	KLW	5/21/2016 11:48	MRP	
Lead	<0.00500	mg/L	0.00100	0.00500	5/19/2016 10:00	KLW	5/21/2016 11:48	MRP	
Analysis Desc: EPA 300			Analytical Method: EPA 300						
TOTAL NUTRIENTS							5/19/2016 21:34	LBB	
Sulfate	<1.00	mg/L	0.3000	1.00			5/19/2016 21:34	LBB	
Chloride	<0.2500	mg/L	0.0400	0.2500			5/19/2016 21:34	LBB	
Fluoride	<0.3000	mg/L	0.0100	0.3000			5/19/2016 21:34	LBB	
Analysis Desc: SM 2540C			Analytical Method: SM 2540C						
WET CHEMISTRY							5/16/2016 16:55	KLW	

Report ID: 103367 - 5034960
 GPC Report Page 9 of 20

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ANALYTICAL RESULTS

Workorder: 103367 CCR - Scherer AP

Lab ID:	103367004	Date Received:	5/13/2016 13:35
Sample ID:	EQB-7	Date Collected:	5/13/2016 10:20
Sample Description	Equipment Blank	Matrix:	Water
Location	Scherer AP		

Parameters	Results	Units	MDL	RL	Prepared	By	Analyzed	By	Qual
TDS	<25	mg/L	25	25			5/16/2016 16:55	KLW	

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ANALYTICAL RESULTS QUALIFIERS

Workorder: 103367 CCR - Scherer AP

PARAMETER QUALIFIERS

- ND None detected at the laboratory Method Detection Limit
- MDL Method Detection Limit
- RL Reporting Limit
- J The reported value is between the laboratory method detection limit and the laboratory reporting limit

- L1 Value exceeds the instrument calibration range but is within the verified linear dynamic range.

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QUALITY CONTROL DATA

Workorder: 103367 CCR - Scherer AP

QC Batch: DIGM/4309 Analysis Method: EPA 6010D
 QC Batch Method: EPA 3005A
 Associated Lab Samples: 103367001 103367002 103367003 103367004

METHOD BLANK: 105940

Parameter	Units	Blank Result	Reporting Limit Qualifiers
INORGANICS			
Calcium	mg/L	<0.500	0.500

LABORATORY CONTROL SAMPLE: 105941

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits Qualifiers
INORGANICS					
Calcium	mg/L	5	4.84	96.8	80-120

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 105942 105943 Original: 103357006

Parameter	Units	Original Result	Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limit	RPD	Max RPD	Qualifiers
INORGANICS											
Calcium	mg/L	0.75	5	5.44	5.41	93.8	93.2	75-125	0.64	20	

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QUALITY CONTROL DATA

Workorder: 103367 CCR - Scherer AP

QC Batch: IC/3030 Analysis Method: EPA 300
 QC Batch Method: EPA 300
 Associated Lab Samples: 103367001 103367002 103367003 103367004

METHOD BLANK: 106003

Parameter	Units	Blank Result	Reporting Limit	Qualifiers
Chloride	mg/L	<0.2500	0.2500	
Sulfate	mg/L	<1.00	1.00	
Fluoride	mg/L	<0.3000	0.3000	

METHOD BLANK: 106013

Parameter	Units	Blank Result	Reporting Limit	Qualifiers
Chloride	mg/L	<0.2500	0.2500	
Sulfate	mg/L	<1.00	1.00	
Fluoride	mg/L	<0.3000	0.3000	

METHOD BLANK: 106272

Parameter	Units	Blank Result	Reporting Limit	Qualifiers
Chloride	mg/L	<0.2500	0.2500	
Sulfate	mg/L	<1.00	1.00	

LABORATORY CONTROL SAMPLE: 106004

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chloride	mg/L	0.5	0.4781	95.6		
Sulfate	mg/L	5	4.90	98		
Fluoride	mg/L	0.5	0.5142	103		

LABORATORY CONTROL SAMPLE: 106006

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chloride	mg/L	11.3	11.4	101	90-110	
Fluoride	mg/L	6.83	6.68	97.8	90-110	

Report ID: 103367 - 5034960
 GPC Report Page 13 of 20

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QUALITY CONTROL DATA

Workorder: 103367 CCR - Scherer AP

LABORATORY CONTROL SAMPLE: 106014

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chloride	mg/L	0.5	0.4600	92		
Sulfate	mg/L	5	4.84	96.7		
Fluoride	mg/L	0.5	0.5061	101		

LABORATORY CONTROL SAMPLE: 106273

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chloride	mg/L	0.5	0.4681	93.6		
Sulfate	mg/L	5	4.89	97.7		

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 106011 106012 Original: 103357010

Parameter	Units	Original Result	Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limit	RPD	Max RPD	Qualifiers
Sulfate	mg/L	0	10	10.0	9.98	100	99.8	90-110	0.2	10	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 106015 106016 Original: 103369004

Parameter	Units	Original Result	Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limit	RPD	Max RPD	Qualifiers
Chloride	mg/L	0	1	0.9683	0.9629	96.8	96.3	90-110	0.52	10	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 106019 106020 Original: 103369004

Parameter	Units	Original Result	Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limit	RPD	Max RPD	Qualifiers
Sulfate	mg/L	0.0112	10	10.0	9.98	100	99.6	90-110	0.4	10	

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QUALITY CONTROL DATA

Workorder: 103367 CCR - Scherer AP

QC Batch: GRAV/2870 Analysis Method: SM 2540C
 QC Batch Method: SM 2540C
 Associated Lab Samples: 103367001 103367002 103367003 103367004

METHOD BLANK: 106026

Parameter	Units	Blank Result	Reporting Limit	Qualifiers
WET CHEMISTRY				
TDS	mg/L	<25	25	

LABORATORY CONTROL SAMPLE: 106029

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
WET CHEMISTRY						
TDS	mg/L	241	244	101	90-110	

SAMPLE DUPLICATE: 106027 Original: 103357005

Parameter	Units	Original Result	DUP Result	RPD	Max RPD	Qualifiers
WET CHEMISTRY						
TDS	mg/L	190	190	0	20	

SAMPLE DUPLICATE: 106028 Original: 103369001

Parameter	Units	Original Result	DUP Result	RPD	Max RPD	Qualifiers
WET CHEMISTRY						
TDS	mg/L	142	139	2.1	20	

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QUALITY CONTROL DATA

Workorder: 103367 CCR - Scherer AP

QC Batch: HGPR/1655 Analysis Method: EPA 7470A
 QC Batch Method: EPA 7470A
 Associated Lab Samples: 103367001 103367002 103367003 103367004

METHOD BLANK: 106036

Parameter	Units	Blank Result	Reporting Limit Qualifiers
TOTAL METALS			
Mercury	mg/L	<0.000500	0.000500

LABORATORY CONTROL SAMPLE: 106032

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits Qualifiers
TOTAL METALS					
Mercury	mg/L	0.0122	0.0126	103	80-120

LABORATORY CONTROL SAMPLE: 106037

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits Qualifiers
TOTAL METALS					
Mercury	mg/L	0.002	0.00201	100	80-120

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 106038 106039 Original: 103357011

Parameter	Units	Original Result	Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limit	RPD	Max RPD	Qualifiers
TOTAL METALS											
Mercury	mg/L	0.00011	0.002	0.00209	0.00202	99	95	80-120	4.1	20	

SAMPLE DUPLICATE: 106040 Original: 103357012

Parameter	Units	Original Result	DUP Result	RPD	Max RPD Qualifiers
TOTAL METALS					
Mercury	mg/L	<0.000500	<0.000500	6	20

Report ID: 103367 - 5034960
 GPC Report Page 16 of 20

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QUALITY CONTROL DATA

Workorder: 103367 CCR - Scherer AP

QC Batch: DIGM/4313 Analysis Method: EPA 6020B
 QC Batch Method: EPA 3005A
 Associated Lab Samples: 103367001 103367002 103367003 103367004

METHOD BLANK: 106122

Parameter	Units	Blank Result	Reporting Limit Qualifiers
TOTAL METALS			
Lithium	mg/L	<0.0500	0.0500
Beryllium	mg/L	<0.00300	0.00300
Boron	mg/L	<0.100	0.100
Chromium	mg/L	<0.0100	0.0100
Cobalt	mg/L	<0.0100	0.0100
Arsenic	mg/L	<0.00500	0.00500
Selenium	mg/L	<0.0100	0.0100
Molybdenum	mg/L	<0.0100	0.0100
Cadmium	mg/L	<0.00100	0.00100
Antimony	mg/L	<0.00300	0.00300
Barium	mg/L	<0.0100	0.0100
Thallium	mg/L	<0.00100	0.00100
Lead	mg/L	<0.00500	0.00500

LABORATORY CONTROL SAMPLE: 106123

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits Qualifiers
TOTAL METALS					
Lithium	mg/L	0.2	0.208	104	80-120
Beryllium	mg/L	0.1	0.100	100	80-120
Boron	mg/L	0.1	0.103	103	80-120
Chromium	mg/L	0.1	0.104	104	80-120
Cobalt	mg/L	0.1	0.104	104	80-120
Arsenic	mg/L	0.1	0.101	101	80-120
Selenium	mg/L	0.1	0.0970	97	80-120
Molybdenum	mg/L	0.1	0.100	100	80-120
Cadmium	mg/L	0.1	0.102	102	80-120
Antimony	mg/L	0.1	0.103	103	80-120
Barium	mg/L	0.1	0.0998	99.8	80-120
Thallium	mg/L	0.1	0.0939	93.9	80-120
Lead	mg/L	0.1	0.102	102	80-120

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QUALITY CONTROL DATA

Workorder: 103367 CCR - Scherer AP

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 106124 106125 Original: 103357005

Parameter	Units	Original Result	Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limit	RPD	Max RPD	Qualifiers
TOTAL METALS											
Lithium	mg/L	0.00044	0.2	0.204	0.202	102	101	75-125	0.99	20	
Beryllium	mg/L	8e-006	0.1	0.0983	0.0994	98.3	99.4	75-125	1.1	20	
Chromium	mg/L	0.00031	0.1	0.105	0.101	104	101	75-125	2.9	20	
Cobalt	mg/L	0.0145	0.1	0.119	0.116	104	102	75-125	1.9	20	
Arsenic	mg/L	0.00033	0.1	0.102	0.0996	101	99.3	75-125	1.7	20	
Selenium	mg/L	0.00038	0.1	0.101	0.0974	101	97	75-125	4	20	
Molybdenum	mg/L	0.00035	0.1	0.106	0.103	105	103	75-125	1.9	20	
Cadmium	mg/L	3e-006	0.1	0.103	0.101	103	101	75-125	2	20	
Antimony	mg/L	0.00025	0.1	0.106	0.101	105	101	75-125	3.9	20	
Barium	mg/L	0.0198	0.1	0.121	0.123	101	104	75-125	2.9	20	
Thallium	mg/L	1e-005	0.1	0.0946	0.0927	94.6	92.7	75-125	2	20	
Lead	mg/L	2e-005	0.1	0.102	0.100	102	100	75-125	2	20	

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Workorder: 103367 CCR - Scherer AP

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
103367001	SGWC-19	EPA 3005A	DIGM/4309	EPA 6010D	ICP/5010
103367002	Dup-7	EPA 3005A	DIGM/4309	EPA 6010D	ICP/5010
103367003	SGWC-18	EPA 3005A	DIGM/4309	EPA 6010D	ICP/5010
103367004	EQB-7	EPA 3005A	DIGM/4309	EPA 6010D	ICP/5010
103367001	SGWC-19	EPA 300	IC/3030		
103367002	Dup-7	EPA 300	IC/3030		
103367003	SGWC-18	EPA 300	IC/3030		
103367004	EQB-7	EPA 300	IC/3030		
103367001	SGWC-19	SM 2540C	GRAV/2870		
103367002	Dup-7	SM 2540C	GRAV/2870		
103367003	SGWC-18	SM 2540C	GRAV/2870		
103367004	EQB-7	SM 2540C	GRAV/2870		
103367001	SGWC-19	EPA 7470A	HGPR/1655	EPA 7470A	CVAA/1841
103367002	Dup-7	EPA 7470A	HGPR/1655	EPA 7470A	CVAA/1841
103367003	SGWC-18	EPA 7470A	HGPR/1655	EPA 7470A	CVAA/1841
103367004	EQB-7	EPA 7470A	HGPR/1655	EPA 7470A	CVAA/1841
103367001	SGWC-19	EPA 3005A	DIGM/4313	EPA 6020B	ICPM/1060
103367002	Dup-7	EPA 3005A	DIGM/4313	EPA 6020B	ICPM/1060
103367003	SGWC-18	EPA 3005A	DIGM/4313	EPA 6020B	ICPM/1060
103367004	EQB-7	EPA 3005A	DIGM/4313	EPA 6020B	ICPM/1060

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LABORATORY CERTIFICATIONS

Workorder: 103367 CCR - Scherer AP

Certification Program	Certification Number
NELAC	E57554

CERTIFICATE OF ANALYSIS

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Georgia Power Environmental Laboratory
NELAP Certification #E57554
 2480 Maner Road, BIN 39110
 Atlanta, Georgia 30339
 Phone: (404) 799-2100
 Company: 8-530-2100

ANALYSIS REQUEST AND CHAIN OF CUSTODY RECORD

LAB USE ONLY

Work Order No. **103367**

Reviewed By: _____

Page 1 of 1

Sample Shipment Date:⁸ 5/13/16 ¹² Standard Turnaround Time

Sample Received Date:⁹ _____

Sampled By:¹⁰ Charles Watson # of Business Days (Rush)
 (Must be cleared through Env. Lab. Prior to shipment)

Company:¹ Southern Company Services
 Report To Joju Abraham
 Address:² 241 Ralph McGill Blvd SE B10185
Atlanta, GA 30308
 Phone/Fax:³ 404-506-7239
 Contact:⁴ Joju Abraham
 Project Location:⁵ Plant Scherer
 Account Number:⁶ _____
 Special Instructions:⁷ Scherer AP CCR GW


 Signature
 Authorization to subcontract analysis will be assumed acceptable by customer unless stated otherwise.

LAB USE ONLY ¹³ LAB ID	Sample Number ¹⁴	Collection ¹⁵		Sample Description ¹⁶	Sample Type ¹⁷	Matrix ¹⁸	No. of Containers ¹⁹	ANALYSIS REQUESTED ²¹			PRESERVATIVE ²⁰			Sample Type Key: ²² G-Gab O-Other C-Composite	Comments
		Date	Time					HNO3	Ice	HNO3	N	N			
103367003	56-WC-18	5/13/16	923	Ashpenj-John Graham	G	GW	3	X	X						
↓ 4	EQB-7	5/13/16	1020	Equipment blank	G	PW	3	X	X						
LAB USE ONLY: Sample Receipt Information ²⁸															
Relinquished by: ²⁶ <u>Charles Watson</u> Date/Time <u>5/13/16 1330</u> <u>7:50C (6PEL-JL-UP)</u> ice, hand, cooler in good condition, pH=2															
Received by: ²⁷ <u>[Signature]</u> Date/Time <u>5-13-16 @ 1335</u>															
Relinquished by: _____ Date/Time _____															
Received by: _____ Date/Time _____															

Sample Receipt Checklist



Client: Scherer
 Workorder No.: 103367
 Carrier: HAND

of Samples: 4
 Tracking No:

Question	Answer	Comment
Radioactivity wasn't checked or is <= background as measured by a survey meter	True	
Custody seals were present on cooler	False	
Custody seals were present on sample	False	
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	7.5
COC is present	True	
COC is filled out in ink and is legible	True	
COC is filled out with pertinent information	True	
The field sampler's name is on the COC	True	
Sample containers have legible labels	True	
Information on the sample label agrees with information on the COC	True	
Samples are received within holding times	True	
Containers are not broken or leaking	True	
Sample collection date/times are present	True	
Appropriate sample containers are used	True	
Sample bottles are completely filled	True	
Sample preservation is checked	True	
Sample preservation is acceptable	True	
There is sufficient sample volume for all requested analyses	True	
Containers requiring zero headspace have no headspace or the bubble is < 6mm (1/4 inch)	True	
Multiphasic samples are not present	True	
Samples do not require splitting or compositing	True	

Receiving Narrative:

No non-conformance noted.

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

TestAmerica Laboratories, Inc.

TestAmerica Pensacola

3355 McLemore Drive

Pensacola, FL 32514

Tel: (850)474-1001

TestAmerica Job ID: 400-123942-1

Client Project/Site: CCR Plant Scherer

For:

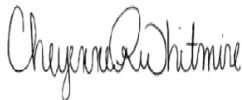
Georgia Power - Environmental Lab

Bin 39110

2480 Maner Road

Smyrna, Georgia 30080

Attn: Jolynn Locke



Authorized for release by:

8/9/2016 6:32:20 PM

Cheyenne Whitmire, Project Manager II

(850)471-6222

cheyenne.whitmire@testamericainc.com

LINKS

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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.

1

2

3

4

5

6

7

8

9

10

11

12

13



Table of Contents

Cover Page	1
Table of Contents	2
Case Narrative	3
Method Summary	4
Sample Summary	5
Client Sample Results	6
Definitions	27
Chronicle	28
QC Association	37
QC Sample Results	39
Chain of Custody	44
Receipt Checklists	48
Certification Summary	49

Case Narrative

Client: Georgia Power - Environmental Lab
Project/Site: CCR Plant Scherer

TestAmerica Job ID: 400-123942-1

Job ID: 400-123942-1

Laboratory: TestAmerica Pensacola

Narrative

Job Narrative
400-123942-1

RAD

Method(s) PrecSep_0: Insufficient sample volume was available to perform a sample duplicate (DUP) associated with Ra228 analytical batch 160-260212.

Method(s) PrecSep-21: Insufficient sample volume was available to perform a sample duplicate (DUP) associated with Ra226 analytical batch 160-260210. A lab control sample/lab control sample duplicate (LCS/LCSD) was prepared instead.

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

Method Summary

Client: Georgia Power - Environmental Lab
Project/Site: CCR Plant Scherer

TestAmerica Job ID: 400-123942-1

Method	Method Description	Protocol	Laboratory
9315	Radium-226 (GFPC)	SW846	TAL SL
9320	Radium-228 (GFPC)	SW846	TAL SL
Ra226_Ra228	Combined Radium-226 and Radium-228	TAL-STL	TAL SL

Protocol References:

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:

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



Sample Summary

Client: Georgia Power - Environmental Lab
Project/Site: CCR Plant Scherer

TestAmerica Job ID: 400-123942-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
400-123942-1	SGWA-3	Water	05/10/16 09:47	07/05/16 10:01
400-123942-2	SGWA-25	Water	05/10/16 15:34	07/05/16 10:01
400-123942-3	SGWA-24	Water	05/10/16 09:21	07/05/16 10:01
400-123942-4	SGWA-5	Water	05/10/16 11:46	07/05/16 10:01
400-123942-5	DUP-5	Water	05/10/16 00:00	07/05/16 10:01
400-123942-6	SGWA-1	Water	05/10/16 10:26	07/05/16 10:01
400-123942-7	SGWA-2	Water	05/10/16 16:18	07/05/16 10:01
400-123942-8	SGWC-14	Water	05/12/16 08:53	07/09/16 09:13
400-123942-9	SGWC-17	Water	05/12/16 10:55	07/09/16 09:13
400-123942-10	FIELD BLANK-6	Water	05/12/16 10:21	07/05/16 10:01
400-123942-11	SGWC-21	Water	05/12/16 14:02	07/05/16 10:01
400-123942-12	SGWC-13	Water	05/12/16 10:09	07/05/16 10:01
400-123942-13	SGWC-16	Water	05/12/16 13:47	07/05/16 10:01
400-123942-14	SGWC-22	Water	05/12/16 18:30	07/05/16 10:01
400-123942-15	FIELD BLANK-7	Water	05/12/16 18:50	07/05/16 10:01
400-123942-16	SGWC-15	Water	05/12/16 10:19	07/05/16 10:01
400-123942-17	EQB-6	Water	05/12/16 11:30	07/05/16 10:01
400-123942-18	SGWC-23	Water	05/12/16 14:08	07/05/16 10:01
400-123942-19	SGWC-20	Water	05/12/16 16:17	07/05/16 10:01
400-123942-20	SGWC-7	Water	05/11/16 08:28	07/09/16 09:13
400-123942-21	EQB-5	Water	05/11/16 10:03	07/09/16 09:13
400-123942-22	SGWC-9	Water	05/11/16 11:31	07/09/16 09:13
400-123942-23	SGWC-12	Water	05/11/16 14:53	07/09/16 09:13
400-123942-24	DUP-6	Water	05/11/16 00:00	07/09/16 09:13
400-123942-25	SGWC-6	Water	05/11/16 09:02	07/09/16 09:13
400-123942-26	SGWC-8	Water	05/11/16 11:40	07/09/16 09:13
400-123942-27	SGWC-11	Water	05/11/16 14:26	07/09/16 09:13
400-123942-28	FIELD BLANK-5	Water	05/11/16 11:56	07/09/16 09:13
400-123942-29	SGWA-4	Water	05/11/16 10:06	07/09/16 09:13
400-123942-30	SGWC-10	Water	05/11/16 15:55	07/09/16 09:13
400-123942-31	SGWC-19	Water	05/13/16 09:12	07/05/16 10:01
400-123942-32	DUP-7	Water	05/13/16 00:00	07/05/16 10:01
400-123942-33	SGWC-18	Water	05/13/16 09:23	07/05/16 10:01
400-123942-34	EQB-7	Water	05/13/16 10:20	07/05/16 10:01

Client Sample Results

Client: Georgia Power - Environmental Lab
 Project/Site: CCR Plant Scherer

TestAmerica Job ID: 400-123942-1

Client Sample ID: SGWA-3

Date Collected: 05/10/16 09:47

Date Received: 07/05/16 10:01

Lab Sample ID: 400-123942-1

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	0.0266	U	0.0886	0.0886	1.00	0.166	pCi/L	07/07/16 11:25	07/29/16 10:27	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	91.7		40 - 110					07/07/16 11:25	07/29/16 10:27	1

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.161	U	0.209	0.209	1.00	0.347	pCi/L	07/07/16 11:25	07/28/16 13:01	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	91.7		40 - 110					07/07/16 11:25	07/28/16 13:01	1
Y Carrier	83.4		40 - 110					07/07/16 11:25	07/28/16 13:01	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	0.188	U	0.227	0.227	5.00	0.347	pCi/L		08/04/16 00:03	1

Client Sample ID: SGWA-25

Date Collected: 05/10/16 15:34

Date Received: 07/05/16 10:01

Lab Sample ID: 400-123942-2

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	0.0604	U	0.127	0.127	1.00	0.223	pCi/L	07/07/16 11:25	07/29/16 10:27	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	88.9		40 - 110					07/07/16 11:25	07/29/16 10:27	1

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	-0.0734	U	0.192	0.192	1.00	0.366	pCi/L	07/07/16 11:25	07/28/16 13:01	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	88.9		40 - 110					07/07/16 11:25	07/28/16 13:01	1
Y Carrier	82.6		40 - 110					07/07/16 11:25	07/28/16 13:01	1

TestAmerica Pensacola

Client Sample Results

Client: Georgia Power - Environmental Lab
Project/Site: CCR Plant Scherer

TestAmerica Job ID: 400-123942-1

Client Sample ID: SGWA-25

Date Collected: 05/10/16 15:34

Date Received: 07/05/16 10:01

Lab Sample ID: 400-123942-2

Matrix: Water

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	-0.0130	U	0.231	0.231	5.00	0.366	pCi/L		08/04/16 00:03	1

Client Sample ID: SGWA-24

Date Collected: 05/10/16 09:21

Date Received: 07/05/16 10:01

Lab Sample ID: 400-123942-3

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	0.0221	U	0.0667	0.0667	1.00	0.121	pCi/L	07/08/16 13:53	08/01/16 08:03	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	89.2		40 - 110					07/08/16 13:53	08/01/16 08:03	1

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.288	U	0.310	0.311	1.00	0.508	pCi/L	07/08/16 13:53	07/28/16 12:43	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	89.2		40 - 110					07/08/16 13:53	07/28/16 12:43	1
Y Carrier	81.5		40 - 110					07/08/16 13:53	07/28/16 12:43	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	0.310	U	0.317	0.318	5.00	0.508	pCi/L		08/04/16 00:03	1

Client Sample ID: SGWA-5

Date Collected: 05/10/16 11:46

Date Received: 07/05/16 10:01

Lab Sample ID: 400-123942-4

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	0.0282	U	0.0550	0.0550	1.00	0.0975	pCi/L	07/08/16 13:53	08/01/16 08:03	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	92.9		40 - 110					07/08/16 13:53	08/01/16 08:03	1

Client Sample Results

Client: Georgia Power - Environmental Lab
Project/Site: CCR Plant Scherer

TestAmerica Job ID: 400-123942-1

Client Sample ID: SGWA-5

Lab Sample ID: 400-123942-4

Date Collected: 05/10/16 11:46

Matrix: Water

Date Received: 07/05/16 10:01

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.310	U	0.251	0.252	1.00	0.397	pCi/L	07/08/16 13:53	07/28/16 12:43	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	92.9		40 - 110					07/08/16 13:53	07/28/16 12:43	1
Y Carrier	80.7		40 - 110					07/08/16 13:53	07/28/16 12:43	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	0.338	U	0.257	0.258	5.00	0.397	pCi/L		08/04/16 00:03	1

Client Sample ID: DUP-5

Lab Sample ID: 400-123942-5

Date Collected: 05/10/16 00:00

Matrix: Water

Date Received: 07/05/16 10:01

Method: 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.0332	U	0.0517	0.0518	1.00	0.0892	pCi/L	07/08/16 13:53	08/01/16 08:03	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	95.2		40 - 110					07/08/16 13:53	08/01/16 08:03	1

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.0825	U	0.257	0.257	1.00	0.444	pCi/L	07/08/16 13:53	07/28/16 12:43	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	95.2		40 - 110					07/08/16 13:53	07/28/16 12:43	1
Y Carrier	84.1		40 - 110					07/08/16 13:53	07/28/16 12:43	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	0.116	U	0.262	0.262	5.00	0.444	pCi/L		08/04/16 00:03	1

Client Sample Results

Client: Georgia Power - Environmental Lab
Project/Site: CCR Plant Scherer

TestAmerica Job ID: 400-123942-1

Client Sample ID: SGWA-1

Date Collected: 05/10/16 10:26

Date Received: 07/05/16 10:01

Lab Sample ID: 400-123942-6

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	-0.0311	U	0.0607	0.0608	1.00	0.129	pCi/L	07/08/16 13:53	08/01/16 08:03	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	86.0		40 - 110					07/08/16 13:53	08/01/16 08:03	1

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.306	U	0.290	0.291	1.00	0.469	pCi/L	07/08/16 13:53	07/28/16 12:43	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	86.0		40 - 110					07/08/16 13:53	07/28/16 12:43	1
Y Carrier	82.6		40 - 110					07/08/16 13:53	07/28/16 12:43	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	0.275	U	0.296	0.298	5.00	0.469	pCi/L		08/04/16 00:03	1

Client Sample ID: SGWA-2

Date Collected: 05/10/16 16:18

Date Received: 07/05/16 10:01

Lab Sample ID: 400-123942-7

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	0.0118	U	0.0716	0.0716	1.00	0.132	pCi/L	07/08/16 13:53	08/01/16 08:03	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	90.3		40 - 110					07/08/16 13:53	08/01/16 08:03	1

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.429		0.270	0.273	1.00	0.415	pCi/L	07/08/16 13:53	07/28/16 12:44	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	90.3		40 - 110					07/08/16 13:53	07/28/16 12:44	1
Y Carrier	82.6		40 - 110					07/08/16 13:53	07/28/16 12:44	1

Client Sample Results

Client: Georgia Power - Environmental Lab
Project/Site: CCR Plant Scherer

TestAmerica Job ID: 400-123942-1

Client Sample ID: SGWA-2

Date Collected: 05/10/16 16:18

Date Received: 07/05/16 10:01

Lab Sample ID: 400-123942-7

Matrix: Water

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	0.441		0.280	0.282	5.00	0.415	pCi/L		08/04/16 00:03	1

Client Sample ID: SGWC-14

Date Collected: 05/12/16 08:53

Date Received: 07/09/16 09:13

Lab Sample ID: 400-123942-8

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	0.106	U	0.136	0.136	1.00	0.226	pCi/L	07/12/16 16:38	08/03/16 17:15	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	86.3		40 - 110					07/12/16 16:38	08/03/16 17:15	1

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.000	U	0.270	0.270	1.00	0.483	pCi/L	07/12/16 17:07	08/02/16 13:58	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	86.3		40 - 110					07/12/16 17:07	08/02/16 13:58	1
Y Carrier	83.7		40 - 110					07/12/16 17:07	08/02/16 13:58	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	0.106	U	0.302	0.302	5.00	0.483	pCi/L		08/04/16 02:09	1

Client Sample ID: SGWC-17

Date Collected: 05/12/16 10:55

Date Received: 07/09/16 09:13

Lab Sample ID: 400-123942-9

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	0.0568	U	0.114	0.114	1.00	0.199	pCi/L	07/12/16 16:38	08/03/16 17:15	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	88.3		40 - 110					07/12/16 16:38	08/03/16 17:15	1

Client Sample Results

Client: Georgia Power - Environmental Lab
Project/Site: CCR Plant Scherer

TestAmerica Job ID: 400-123942-1

Client Sample ID: SGWC-17

Lab Sample ID: 400-123942-9

Date Collected: 05/12/16 10:55

Matrix: Water

Date Received: 07/09/16 09:13

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.0772	U	0.251	0.251	1.00	0.438	pCi/L	07/12/16 17:07	08/02/16 13:58	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	88.3		40 - 110					07/12/16 17:07	08/02/16 13:58	1
Y Carrier	86.4		40 - 110					07/12/16 17:07	08/02/16 13:58	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	0.134	U	0.276	0.276	5.00	0.438	pCi/L		08/04/16 02:09	1

Client Sample ID: FIELD BLANK-6

Lab Sample ID: 400-123942-10

Date Collected: 05/12/16 10:21

Matrix: Water

Date Received: 07/05/16 10:01

Method: 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.0234	U	0.0450	0.0451	1.00	0.0808	pCi/L	07/08/16 13:53	08/01/16 08:04	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	87.2		40 - 110					07/08/16 13:53	08/01/16 08:04	1

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.0506	U	0.247	0.247	1.00	0.434	pCi/L	07/08/16 13:53	07/28/16 12:44	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	87.2		40 - 110					07/08/16 13:53	07/28/16 12:44	1
Y Carrier	81.5		40 - 110					07/08/16 13:53	07/28/16 12:44	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	0.0740	U	0.251	0.251	5.00	0.434	pCi/L		08/04/16 00:03	1

TestAmerica Pensacola

Client Sample Results

Client: Georgia Power - Environmental Lab
Project/Site: CCR Plant Scherer

TestAmerica Job ID: 400-123942-1

Client Sample ID: SGWC-21

Lab Sample ID: 400-123942-11

Date Collected: 05/12/16 14:02

Matrix: Water

Date Received: 07/05/16 10:01

Method: 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.0585	U	0.0544	0.0547	1.00	0.0837	pCi/L	07/08/16 13:53	08/01/16 08:04	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	94.0		40 - 110					07/08/16 13:53	08/01/16 08:04	1

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.157	U	0.258	0.258	1.00	0.435	pCi/L	07/08/16 13:53	07/28/16 12:44	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	94.0		40 - 110					07/08/16 13:53	07/28/16 12:44	1
Y Carrier	79.6		40 - 110					07/08/16 13:53	07/28/16 12:44	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	0.216	U	0.264	0.264	5.00	0.435	pCi/L		08/04/16 00:03	1

Client Sample ID: SGWC-13

Lab Sample ID: 400-123942-12

Date Collected: 05/12/16 10:09

Matrix: Water

Date Received: 07/05/16 10:01

Method: 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.0423	U	0.0568	0.0569	1.00	0.0953	pCi/L	07/08/16 13:53	08/01/16 08:05	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	96.3		40 - 110					07/08/16 13:53	08/01/16 08:05	1

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.0109	U	0.236	0.236	1.00	0.419	pCi/L	07/08/16 13:53	07/28/16 13:00	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	96.3		40 - 110					07/08/16 13:53	07/28/16 13:00	1
Y Carrier	83.0		40 - 110					07/08/16 13:53	07/28/16 13:00	1

TestAmerica Pensacola

Client Sample Results

Client: Georgia Power - Environmental Lab
Project/Site: CCR Plant Scherer

TestAmerica Job ID: 400-123942-1

Client Sample ID: SGWC-13

Date Collected: 05/12/16 10:09

Date Received: 07/05/16 10:01

Lab Sample ID: 400-123942-12

Matrix: Water

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	0.0531	U	0.242	0.242	5.00	0.419	pCi/L		08/04/16 00:03	1

Client Sample ID: SGWC-16

Date Collected: 05/12/16 13:47

Date Received: 07/05/16 10:01

Lab Sample ID: 400-123942-13

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	0.0104	U	0.0470	0.0470	1.00	0.0904	pCi/L	07/08/16 13:53	08/01/16 08:05	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	90.6		40 - 110					07/08/16 13:53	08/01/16 08:05	1

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.00919	U	0.240	0.240	1.00	0.428	pCi/L	07/08/16 13:53	07/28/16 13:00	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	90.6		40 - 110					07/08/16 13:53	07/28/16 13:00	1
Y Carrier	82.2		40 - 110					07/08/16 13:53	07/28/16 13:00	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	0.0196	U	0.244	0.244	5.00	0.428	pCi/L		08/04/16 00:03	1

Client Sample ID: SGWC-22

Date Collected: 05/12/16 18:30

Date Received: 07/05/16 10:01

Lab Sample ID: 400-123942-14

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	U	0.0869	0.0875	1.00	0.133	pCi/L	07/08/16 13:53	08/01/16 08:05	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	93.2		40 - 110					07/08/16 13:53	08/01/16 08:05	1

Client Sample Results

Client: Georgia Power - Environmental Lab
Project/Site: CCR Plant Scherer

TestAmerica Job ID: 400-123942-1

Client Sample ID: SGWC-22

Lab Sample ID: 400-123942-14

Date Collected: 05/12/16 18:30

Matrix: Water

Date Received: 07/05/16 10:01

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.172	U	0.269	0.269	1.00	0.451	pCi/L	07/08/16 13:53	07/28/16 13:00	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	93.2		40 - 110					07/08/16 13:53	07/28/16 13:00	1
Y Carrier	82.6		40 - 110					07/08/16 13:53	07/28/16 13:00	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	0.285	U	0.282	0.283	5.00	0.451	pCi/L		08/04/16 00:03	1

Client Sample ID: FIELD BLANK-7

Lab Sample ID: 400-123942-15

Date Collected: 05/12/16 18:50

Matrix: Water

Date Received: 07/05/16 10:01

Method: 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	0.0449	0.0449	1.00	0.0910	pCi/L	07/08/16 13:53	08/01/16 08:05	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	92.9		40 - 110					07/08/16 13:53	08/01/16 08:05	1

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.323	U	0.272	0.274	1.00	0.434	pCi/L	07/08/16 13:53	07/28/16 13:00	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	92.9		40 - 110					07/08/16 13:53	07/28/16 13:00	1
Y Carrier	77.8		40 - 110					07/08/16 13:53	07/28/16 13:00	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	0.323	U	0.276	0.278	5.00	0.434	pCi/L		08/04/16 00:03	1

Client Sample Results

Client: Georgia Power - Environmental Lab
Project/Site: CCR Plant Scherer

TestAmerica Job ID: 400-123942-1

Client Sample ID: SGWC-15

Lab Sample ID: 400-123942-16

Date Collected: 05/12/16 10:19

Matrix: Water

Date Received: 07/05/16 10:01

Method: 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.0276	U	0.0737	0.0738	1.00	0.131	pCi/L	07/08/16 13:53	08/01/16 08:05	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	90.6		40 - 110					07/08/16 13:53	08/01/16 08:05	1

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.317	U	0.235	0.237	1.00	0.367	pCi/L	07/08/16 13:53	07/28/16 13:00	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	90.6		40 - 110					07/08/16 13:53	07/28/16 13:00	1
Y Carrier	85.6		40 - 110					07/08/16 13:53	07/28/16 13:00	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	0.344	U	0.246	0.248	5.00	0.367	pCi/L		08/04/16 00:03	1

Client Sample ID: EQB-6

Lab Sample ID: 400-123942-17

Date Collected: 05/12/16 11:30

Matrix: Water

Date Received: 07/05/16 10:01

Method: 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	-0.0568	U	0.0643	0.0645	1.00	0.139	pCi/L	07/08/16 13:53	08/01/16 08:05	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	92.0		40 - 110					07/08/16 13:53	08/01/16 08:05	1

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.129	U	0.269	0.269	1.00	0.458	pCi/L	07/08/16 13:53	07/28/16 13:00	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	92.0		40 - 110					07/08/16 13:53	07/28/16 13:00	1
Y Carrier	84.9		40 - 110					07/08/16 13:53	07/28/16 13:00	1

TestAmerica Pensacola

Client Sample Results

Client: Georgia Power - Environmental Lab
Project/Site: CCR Plant Scherer

TestAmerica Job ID: 400-123942-1

Client Sample ID: EQB-6

Date Collected: 05/12/16 11:30

Date Received: 07/05/16 10:01

Lab Sample ID: 400-123942-17

Matrix: Water

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	0.0725	U	0.276	0.277	5.00	0.458	pCi/L		08/04/16 00:03	1

Client Sample ID: SGWC-23

Date Collected: 05/12/16 14:08

Date Received: 07/05/16 10:01

Lab Sample ID: 400-123942-18

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	0.564		0.124	0.134	1.00	0.105	pCi/L	07/08/16 13:53	08/01/16 11:42	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	92.0		40 - 110					07/08/16 13:53	08/01/16 11:42	1

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.237	U	0.239	0.240	1.00	0.388	pCi/L	07/08/16 13:53	07/28/16 13:00	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	92.0		40 - 110					07/08/16 13:53	07/28/16 13:00	1
Y Carrier	88.6		40 - 110					07/08/16 13:53	07/28/16 13:00	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	0.801		0.269	0.275	5.00	0.388	pCi/L		08/04/16 00:03	1

Client Sample ID: SGWC-20

Date Collected: 05/12/16 16:17

Date Received: 07/05/16 10:01

Lab Sample ID: 400-123942-19

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	0.126		0.0708	0.0717	1.00	0.0932	pCi/L	07/08/16 13:53	08/01/16 08:06	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	93.7		40 - 110					07/08/16 13:53	08/01/16 08:06	1

Client Sample Results

Client: Georgia Power - Environmental Lab
Project/Site: CCR Plant Scherer

TestAmerica Job ID: 400-123942-1

Client Sample ID: SGWC-20

Lab Sample ID: 400-123942-19

Date Collected: 05/12/16 16:17

Matrix: Water

Date Received: 07/05/16 10:01

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.430		0.260	0.263	1.00	0.397	pCi/L	07/08/16 13:53	07/28/16 13:00	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	93.7		40 - 110					07/08/16 13:53	07/28/16 13:00	1
Y Carrier	86.0		40 - 110					07/08/16 13:53	07/28/16 13:00	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	0.556		0.270	0.273	5.00	0.397	pCi/L		08/04/16 00:03	1

Client Sample ID: SGWC-7

Lab Sample ID: 400-123942-20

Date Collected: 05/11/16 08:28

Matrix: Water

Date Received: 07/09/16 09:13

Method: 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.00712	U	0.0891	0.0891	1.00	0.171	pCi/L	07/12/16 16:38	08/03/16 17:15	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	89.5		40 - 110					07/12/16 16:38	08/03/16 17:15	1

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.207	U	0.234	0.235	1.00	0.385	pCi/L	07/12/16 17:07	08/02/16 13:58	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	89.5		40 - 110					07/12/16 17:07	08/02/16 13:58	1
Y Carrier	85.6		40 - 110					07/12/16 17:07	08/02/16 13:58	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	0.214	U	0.251	0.251	5.00	0.385	pCi/L		08/04/16 02:09	1

TestAmerica Pensacola

Client Sample Results

Client: Georgia Power - Environmental Lab
Project/Site: CCR Plant Scherer

TestAmerica Job ID: 400-123942-1

Client Sample ID: EQB-5

Date Collected: 05/11/16 10:03

Date Received: 07/09/16 09:13

Lab Sample ID: 400-123942-21

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	0.0495	U	0.124	0.124	1.00	0.219	pCi/L	07/12/16 16:38	08/03/16 17:15	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	84.3		40 - 110					07/12/16 16:38	08/03/16 17:15	1

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	-0.0647	U	0.284	0.284	1.00	0.518	pCi/L	07/12/16 17:07	08/02/16 13:58	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	84.3		40 - 110					07/12/16 17:07	08/02/16 13:58	1
Y Carrier	84.5		40 - 110					07/12/16 17:07	08/02/16 13:58	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	-0.0152	U	0.310	0.310	5.00	0.518	pCi/L		08/04/16 02:09	1

Client Sample ID: SGWC-9

Date Collected: 05/11/16 11:31

Date Received: 07/09/16 09:13

Lab Sample ID: 400-123942-22

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	0.110	U	0.103	0.104	1.00	0.161	pCi/L	07/12/16 16:38	08/03/16 17:16	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	80.9		40 - 110					07/12/16 16:38	08/03/16 17:16	1

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.0241	U	0.303	0.303	1.00	0.540	pCi/L	07/12/16 17:07	08/02/16 13:59	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	80.9		40 - 110					07/12/16 17:07	08/02/16 13:59	1
Y Carrier	77.8		40 - 110					07/12/16 17:07	08/02/16 13:59	1

TestAmerica Pensacola

Client Sample Results

Client: Georgia Power - Environmental Lab
Project/Site: CCR Plant Scherer

TestAmerica Job ID: 400-123942-1

Client Sample ID: SGWC-9

Date Collected: 05/11/16 11:31

Date Received: 07/09/16 09:13

Lab Sample ID: 400-123942-22

Matrix: Water

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	0.134	U	0.321	0.321	5.00	0.540	pCi/L		08/04/16 02:09	1

Client Sample ID: SGWC-12

Date Collected: 05/11/16 14:53

Date Received: 07/09/16 09:13

Lab Sample ID: 400-123942-23

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	0.167	U	0.124	0.125	1.00	0.183	pCi/L	07/12/16 16:38	08/03/16 17:16	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	79.2		40 - 110					07/12/16 16:38	08/03/16 17:16	1

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.266	U	0.262	0.263	1.00	0.424	pCi/L	07/12/16 17:07	08/02/16 13:59	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	79.2		40 - 110					07/12/16 17:07	08/02/16 13:59	1
Y Carrier	86.7		40 - 110					07/12/16 17:07	08/02/16 13:59	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	0.433		0.290	0.291	5.00	0.424	pCi/L		08/04/16 02:09	1

Client Sample ID: DUP-6

Date Collected: 05/11/16 00:00

Date Received: 07/09/16 09:13

Lab Sample ID: 400-123942-24

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	0.0461	U	0.0722	0.0724	1.00	0.124	pCi/L	07/12/16 16:38	08/04/16 16:49	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	89.5		40 - 110					07/12/16 16:38	08/04/16 16:49	1

TestAmerica Pensacola

Client Sample Results

Client: Georgia Power - Environmental Lab
Project/Site: CCR Plant Scherer

TestAmerica Job ID: 400-123942-1

Client Sample ID: DUP-6

Lab Sample ID: 400-123942-24

Date Collected: 05/11/16 00:00

Matrix: Water

Date Received: 07/09/16 09:13

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.102	U	0.234	0.234	1.00	0.404	pCi/L	07/12/16 17:07	08/02/16 13:59	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	89.5		40 - 110					07/12/16 17:07	08/02/16 13:59	1
Y Carrier	81.5		40 - 110					07/12/16 17:07	08/02/16 13:59	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	0.148	U	0.244	0.245	5.00	0.404	pCi/L		08/04/16 23:38	1

Client Sample ID: SGWC-6

Lab Sample ID: 400-123942-25

Date Collected: 05/11/16 09:02

Matrix: Water

Date Received: 07/09/16 09:13

Method: 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.0322	U	0.0989	0.0989	1.00	0.179	pCi/L	07/12/16 16:38	08/03/16 17:24	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	90.3		40 - 110					07/12/16 16:38	08/03/16 17:24	1

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.00721	U	0.217	0.217	1.00	0.392	pCi/L	07/12/16 17:07	08/02/16 13:59	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	90.3		40 - 110					07/12/16 17:07	08/02/16 13:59	1
Y Carrier	89.0		40 - 110					07/12/16 17:07	08/02/16 13:59	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	0.0394	U	0.238	0.238	5.00	0.392	pCi/L		08/04/16 02:09	1

TestAmerica Pensacola

Client Sample Results

Client: Georgia Power - Environmental Lab
Project/Site: CCR Plant Scherer

TestAmerica Job ID: 400-123942-1

Client Sample ID: SGWC-8

Lab Sample ID: 400-123942-26

Date Collected: 05/11/16 11:40

Matrix: Water

Date Received: 07/09/16 09:13

Method: 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.518		0.176	0.182	1.00	0.204	pCi/L	07/12/16 16:38	08/03/16 17:29	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	89.7		40 - 110					07/12/16 16:38	08/03/16 17:29	1

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	1.53		0.361	0.388	1.00	0.430	pCi/L	07/12/16 17:07	08/02/16 13:59	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	89.7		40 - 110					07/12/16 17:07	08/02/16 13:59	1
Y Carrier	89.3		40 - 110					07/12/16 17:07	08/02/16 13:59	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	2.05		0.402	0.428	5.00	0.430	pCi/L		08/04/16 02:09	1

Client Sample ID: SGWC-11

Lab Sample ID: 400-123942-27

Date Collected: 05/11/16 14:26

Matrix: Water

Date Received: 07/09/16 09:13

Method: 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.157	U	0.155	0.156	1.00	0.249	pCi/L	07/12/16 16:38	08/03/16 17:29	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	75.8		40 - 110					07/12/16 16:38	08/03/16 17:29	1

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.0256	U	0.255	0.255	1.00	0.457	pCi/L	07/12/16 17:07	08/02/16 13:59	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	75.8		40 - 110					07/12/16 17:07	08/02/16 13:59	1
Y Carrier	89.3		40 - 110					07/12/16 17:07	08/02/16 13:59	1

TestAmerica Pensacola

Client Sample Results

Client: Georgia Power - Environmental Lab
Project/Site: CCR Plant Scherer

TestAmerica Job ID: 400-123942-1

Client Sample ID: SGWC-11

Date Collected: 05/11/16 14:26

Date Received: 07/09/16 09:13

Lab Sample ID: 400-123942-27

Matrix: Water

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	0.182	U	0.298	0.298	5.00	0.457	pCi/L		08/04/16 02:09	1

Client Sample ID: FIELD BLANK-5

Date Collected: 05/11/16 11:56

Date Received: 07/09/16 09:13

Lab Sample ID: 400-123942-28

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	0.0351	U	0.0819	0.0819	1.00	0.149	pCi/L	07/12/16 16:38	08/03/16 17:29	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	88.9		40 - 110					07/12/16 16:38	08/03/16 17:29	1

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	-0.126	U	0.243	0.244	1.00	0.459	pCi/L	07/12/16 17:07	08/02/16 13:59	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	88.9		40 - 110					07/12/16 17:07	08/02/16 13:59	1
Y Carrier	85.2		40 - 110					07/12/16 17:07	08/02/16 13:59	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	-0.0910	U	0.257	0.257	5.00	0.459	pCi/L		08/04/16 02:09	1

Client Sample ID: SGWA-4

Date Collected: 05/11/16 10:06

Date Received: 07/09/16 09:13

Lab Sample ID: 400-123942-29

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	0.0593	U	0.154	0.154	1.00	0.274	pCi/L	07/12/16 16:38	08/03/16 17:29	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	63.2		40 - 110					07/12/16 16:38	08/03/16 17:29	1

Client Sample Results

Client: Georgia Power - Environmental Lab
Project/Site: CCR Plant Scherer

TestAmerica Job ID: 400-123942-1

Client Sample ID: SGWA-4

Lab Sample ID: 400-123942-29

Date Collected: 05/11/16 10:06

Matrix: Water

Date Received: 07/09/16 09:13

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.224	U	0.297	0.298	1.00	0.495	pCi/L	07/12/16 17:07	08/02/16 13:59	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	80.3		40 - 110					07/12/16 17:07	08/02/16 13:59	1
Y Carrier	82.6		40 - 110					07/12/16 17:07	08/02/16 13:59	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	0.284	U	0.335	0.336	5.00	0.495	pCi/L		08/04/16 02:09	1

Client Sample ID: SGWC-10

Lab Sample ID: 400-123942-30

Date Collected: 05/11/16 15:55

Matrix: Water

Date Received: 07/09/16 09:13

Method: 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.0605	U	0.124	0.124	1.00	0.216	pCi/L	07/12/16 16:38	08/03/16 17:29	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	90.9		40 - 110					07/12/16 16:38	08/03/16 17:29	1

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.200	U	0.223	0.223	1.00	0.365	pCi/L	07/12/16 17:07	08/02/16 14:00	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	90.9		40 - 110					07/12/16 17:07	08/02/16 14:00	1
Y Carrier	94.6		40 - 110					07/12/16 17:07	08/02/16 14:00	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	0.260	U	0.255	0.255	5.00	0.365	pCi/L		08/04/16 02:09	1

TestAmerica Pensacola

Client Sample Results

Client: Georgia Power - Environmental Lab
Project/Site: CCR Plant Scherer

TestAmerica Job ID: 400-123942-1

Client Sample ID: SGWC-19

Lab Sample ID: 400-123942-31

Date Collected: 05/13/16 09:12

Matrix: Water

Date Received: 07/05/16 10:01

Method: 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.0104	U	0.0564	0.0564	1.00	0.107	pCi/L	07/08/16 13:53	08/01/16 08:06	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	90.9		40 - 110					07/08/16 13:53	08/01/16 08:06	1

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	-0.126	U	0.195	0.196	1.00	0.375	pCi/L	07/08/16 13:53	07/28/16 13:00	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	90.9		40 - 110					07/08/16 13:53	07/28/16 13:00	1
Y Carrier	89.7		40 - 110					07/08/16 13:53	07/28/16 13:00	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	-0.115	U	0.203	0.204	5.00	0.375	pCi/L		08/04/16 00:03	1

Client Sample ID: DUP-7

Lab Sample ID: 400-123942-32

Date Collected: 05/13/16 00:00

Matrix: Water

Date Received: 07/05/16 10:01

Method: 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.0664	U	0.0515	0.0518	1.00	0.0730	pCi/L	07/08/16 13:53	08/01/16 08:08	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	97.7		40 - 110					07/08/16 13:53	08/01/16 08:08	1

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.185	U	0.189	0.189	1.00	0.306	pCi/L	07/08/16 13:53	07/28/16 13:00	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	97.7		40 - 110					07/08/16 13:53	07/28/16 13:00	1
Y Carrier	90.1		40 - 110					07/08/16 13:53	07/28/16 13:00	1

TestAmerica Pensacola

Client Sample Results

Client: Georgia Power - Environmental Lab
Project/Site: CCR Plant Scherer

TestAmerica Job ID: 400-123942-1

Client Sample ID: DUP-7

Date Collected: 05/13/16 00:00

Date Received: 07/05/16 10:01

Lab Sample ID: 400-123942-32

Matrix: Water

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	0.251	U	0.196	0.196	5.00	0.306	pCi/L		08/04/16 00:03	1

Client Sample ID: SGWC-18

Date Collected: 05/13/16 09:23

Date Received: 07/05/16 10:01

Lab Sample ID: 400-123942-33

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	0.101	U	0.0778	0.0783	1.00	0.118	pCi/L	07/08/16 13:53	08/01/16 07:59	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	87.2		40 - 110					07/08/16 13:53	08/01/16 07:59	1

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.00222	U	0.239	0.239	1.00	0.427	pCi/L	07/08/16 13:53	07/28/16 13:00	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	87.2		40 - 110					07/08/16 13:53	07/28/16 13:00	1
Y Carrier	91.2		40 - 110					07/08/16 13:53	07/28/16 13:00	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	0.103	U	0.252	0.252	5.00	0.427	pCi/L		08/04/16 00:03	1

Client Sample ID: EQB-7

Date Collected: 05/13/16 10:20

Date Received: 07/05/16 10:01

Lab Sample ID: 400-123942-34

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	0.0360	U	0.0644	0.0645	1.00	0.112	pCi/L	07/08/16 14:14	08/01/16 07:59	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	93.7		40 - 110					07/08/16 14:14	08/01/16 07:59	1

Client Sample Results

Client: Georgia Power - Environmental Lab
 Project/Site: CCR Plant Scherer

TestAmerica Job ID: 400-123942-1

Client Sample ID: EQB-7

Lab Sample ID: 400-123942-34

Date Collected: 05/13/16 10:20

Matrix: Water

Date Received: 07/05/16 10:01

Method: 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	0.196	0.196	1.00	0.375	pCi/L	07/08/16 14:14	07/28/16 13:00	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	93.7		40 - 110					07/08/16 14:14	07/28/16 13:00	1
Y Carrier	88.6		40 - 110					07/08/16 14:14	07/28/16 13:00	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	-0.0936	U	0.206	0.206	5.00	0.375	pCi/L		08/04/16 00:03	1

Definitions/Glossary

Client: Georgia Power - Environmental Lab
Project/Site: CCR Plant Scherer

TestAmerica Job ID: 400-123942-1

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
CNF	Contains no Free Liquid
DER	Duplicate error ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision level concentration
MDA	Minimum detectable activity
EDL	Estimated Detection Limit
MDC	Minimum detectable concentration
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
NC	Not Calculated
ND	Not detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RER	Relative error ratio
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)

Lab Chronicle

Client: Georgia Power - Environmental Lab
Project/Site: CCR Plant Scherer

TestAmerica Job ID: 400-123942-1

Client Sample ID: SGWA-3

Date Collected: 05/10/16 09:47

Date Received: 07/05/16 10:01

Lab Sample ID: 400-123942-1

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			259558	07/07/16 11:25	SCB	TAL SL
Total/NA	Analysis	9315		1	262632	07/29/16 10:27	RTM	TAL SL
Total/NA	Prep	PrecSep_0			259562	07/07/16 11:25	SCB	TAL SL
Total/NA	Analysis	9320		1	262466	07/28/16 13:01	RTM	TAL SL
Total/NA	Analysis	Ra226_Ra228		1	263367	08/04/16 00:03	ALS	TAL SL

Client Sample ID: SGWA-25

Date Collected: 05/10/16 15:34

Date Received: 07/05/16 10:01

Lab Sample ID: 400-123942-2

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			259558	07/07/16 11:25	SCB	TAL SL
Total/NA	Analysis	9315		1	262632	07/29/16 10:27	RTM	TAL SL
Total/NA	Prep	PrecSep_0			259562	07/07/16 11:25	SCB	TAL SL
Total/NA	Analysis	9320		1	262466	07/28/16 13:01	RTM	TAL SL
Total/NA	Analysis	Ra226_Ra228		1	263367	08/04/16 00:03	ALS	TAL SL

Client Sample ID: SGWA-24

Date Collected: 05/10/16 09:21

Date Received: 07/05/16 10:01

Lab Sample ID: 400-123942-3

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			259757	07/08/16 13:53	SCB	TAL SL
Total/NA	Analysis	9315		1	262857	08/01/16 08:03	RTM	TAL SL
Total/NA	Prep	PrecSep_0			259762	07/08/16 13:53	SCB	TAL SL
Total/NA	Analysis	9320		1	262456	07/28/16 12:43	RTM	TAL SL
Total/NA	Analysis	Ra226_Ra228		1	263367	08/04/16 00:03	ALS	TAL SL

Client Sample ID: SGWA-5

Date Collected: 05/10/16 11:46

Date Received: 07/05/16 10:01

Lab Sample ID: 400-123942-4

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			259757	07/08/16 13:53	SCB	TAL SL
Total/NA	Analysis	9315		1	262857	08/01/16 08:03	RTM	TAL SL
Total/NA	Prep	PrecSep_0			259762	07/08/16 13:53	SCB	TAL SL
Total/NA	Analysis	9320		1	262456	07/28/16 12:43	RTM	TAL SL
Total/NA	Analysis	Ra226_Ra228		1	263367	08/04/16 00:03	ALS	TAL SL

Lab Chronicle

Client: Georgia Power - Environmental Lab
Project/Site: CCR Plant Scherer

TestAmerica Job ID: 400-123942-1

Client Sample ID: DUP-5

Lab Sample ID: 400-123942-5

Date Collected: 05/10/16 00:00

Matrix: Water

Date Received: 07/05/16 10:01

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			259757	07/08/16 13:53	SCB	TAL SL
Total/NA	Analysis	9315		1	262857	08/01/16 08:03	RTM	TAL SL
Total/NA	Prep	PrecSep_0			259762	07/08/16 13:53	SCB	TAL SL
Total/NA	Analysis	9320		1	262456	07/28/16 12:43	RTM	TAL SL
Total/NA	Analysis	Ra226_Ra228		1	263367	08/04/16 00:03	ALS	TAL SL

Client Sample ID: SGWA-1

Lab Sample ID: 400-123942-6

Date Collected: 05/10/16 10:26

Matrix: Water

Date Received: 07/05/16 10:01

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			259757	07/08/16 13:53	SCB	TAL SL
Total/NA	Analysis	9315		1	262857	08/01/16 08:03	RTM	TAL SL
Total/NA	Prep	PrecSep_0			259762	07/08/16 13:53	SCB	TAL SL
Total/NA	Analysis	9320		1	262456	07/28/16 12:43	RTM	TAL SL
Total/NA	Analysis	Ra226_Ra228		1	263367	08/04/16 00:03	ALS	TAL SL

Client Sample ID: SGWA-2

Lab Sample ID: 400-123942-7

Date Collected: 05/10/16 16:18

Matrix: Water

Date Received: 07/05/16 10:01

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			259757	07/08/16 13:53	SCB	TAL SL
Total/NA	Analysis	9315		1	262857	08/01/16 08:03	RTM	TAL SL
Total/NA	Prep	PrecSep_0			259762	07/08/16 13:53	SCB	TAL SL
Total/NA	Analysis	9320		1	262456	07/28/16 12:44	RTM	TAL SL
Total/NA	Analysis	Ra226_Ra228		1	263367	08/04/16 00:03	ALS	TAL SL

Client Sample ID: SGWC-14

Lab Sample ID: 400-123942-8

Date Collected: 05/12/16 08:53

Matrix: Water

Date Received: 07/09/16 09:13

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			260210	07/12/16 16:38	MCJ	TAL SL
Total/NA	Analysis	9315		1	263198	08/03/16 17:15	RTM	TAL SL
Total/NA	Prep	PrecSep_0			260212	07/12/16 17:07	MCJ	TAL SL
Total/NA	Analysis	9320		1	263018	08/02/16 13:58	RTM	TAL SL
Total/NA	Analysis	Ra226_Ra228		1	263374	08/04/16 02:09	ALS	TAL SL

Lab Chronicle

Client: Georgia Power - Environmental Lab
Project/Site: CCR Plant Scherer

TestAmerica Job ID: 400-123942-1

Client Sample ID: SGWC-17

Lab Sample ID: 400-123942-9

Date Collected: 05/12/16 10:55

Matrix: Water

Date Received: 07/09/16 09:13

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			260210	07/12/16 16:38	MCJ	TAL SL
Total/NA	Analysis	9315		1	263198	08/03/16 17:15	RTM	TAL SL
Total/NA	Prep	PrecSep_0			260212	07/12/16 17:07	MCJ	TAL SL
Total/NA	Analysis	9320		1	263018	08/02/16 13:58	RTM	TAL SL
Total/NA	Analysis	Ra226_Ra228		1	263374	08/04/16 02:09	ALS	TAL SL

Client Sample ID: FIELD BLANK-6

Lab Sample ID: 400-123942-10

Date Collected: 05/12/16 10:21

Matrix: Water

Date Received: 07/05/16 10:01

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			259757	07/08/16 13:53	SCB	TAL SL
Total/NA	Analysis	9315		1	262857	08/01/16 08:04	RTM	TAL SL
Total/NA	Prep	PrecSep_0			259762	07/08/16 13:53	SCB	TAL SL
Total/NA	Analysis	9320		1	262456	07/28/16 12:44	RTM	TAL SL
Total/NA	Analysis	Ra226_Ra228		1	263367	08/04/16 00:03	ALS	TAL SL

Client Sample ID: SGWC-21

Lab Sample ID: 400-123942-11

Date Collected: 05/12/16 14:02

Matrix: Water

Date Received: 07/05/16 10:01

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			259757	07/08/16 13:53	SCB	TAL SL
Total/NA	Analysis	9315		1	262857	08/01/16 08:04	RTM	TAL SL
Total/NA	Prep	PrecSep_0			259762	07/08/16 13:53	SCB	TAL SL
Total/NA	Analysis	9320		1	262456	07/28/16 12:44	RTM	TAL SL
Total/NA	Analysis	Ra226_Ra228		1	263367	08/04/16 00:03	ALS	TAL SL

Client Sample ID: SGWC-13

Lab Sample ID: 400-123942-12

Date Collected: 05/12/16 10:09

Matrix: Water

Date Received: 07/05/16 10:01

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			259757	07/08/16 13:53	SCB	TAL SL
Total/NA	Analysis	9315		1	262857	08/01/16 08:05	RTM	TAL SL
Total/NA	Prep	PrecSep_0			259762	07/08/16 13:53	SCB	TAL SL
Total/NA	Analysis	9320		1	262466	07/28/16 13:00	RTM	TAL SL
Total/NA	Analysis	Ra226_Ra228		1	263367	08/04/16 00:03	ALS	TAL SL

Lab Chronicle

Client: Georgia Power - Environmental Lab
Project/Site: CCR Plant Scherer

TestAmerica Job ID: 400-123942-1

Client Sample ID: SGWC-16

Lab Sample ID: 400-123942-13

Date Collected: 05/12/16 13:47

Matrix: Water

Date Received: 07/05/16 10:01

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			259757	07/08/16 13:53	SCB	TAL SL
Total/NA	Analysis	9315		1	262857	08/01/16 08:05	RTM	TAL SL
Total/NA	Prep	PrecSep_0			259762	07/08/16 13:53	SCB	TAL SL
Total/NA	Analysis	9320		1	262466	07/28/16 13:00	RTM	TAL SL
Total/NA	Analysis	Ra226_Ra228		1	263367	08/04/16 00:03	ALS	TAL SL

Client Sample ID: SGWC-22

Lab Sample ID: 400-123942-14

Date Collected: 05/12/16 18:30

Matrix: Water

Date Received: 07/05/16 10:01

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			259757	07/08/16 13:53	SCB	TAL SL
Total/NA	Analysis	9315		1	262857	08/01/16 08:05	RTM	TAL SL
Total/NA	Prep	PrecSep_0			259762	07/08/16 13:53	SCB	TAL SL
Total/NA	Analysis	9320		1	262466	07/28/16 13:00	RTM	TAL SL
Total/NA	Analysis	Ra226_Ra228		1	263367	08/04/16 00:03	ALS	TAL SL

Client Sample ID: FIELD BLANK-7

Lab Sample ID: 400-123942-15

Date Collected: 05/12/16 18:50

Matrix: Water

Date Received: 07/05/16 10:01

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			259757	07/08/16 13:53	SCB	TAL SL
Total/NA	Analysis	9315		1	262857	08/01/16 08:05	RTM	TAL SL
Total/NA	Prep	PrecSep_0			259762	07/08/16 13:53	SCB	TAL SL
Total/NA	Analysis	9320		1	262466	07/28/16 13:00	RTM	TAL SL
Total/NA	Analysis	Ra226_Ra228		1	263367	08/04/16 00:03	ALS	TAL SL

Client Sample ID: SGWC-15

Lab Sample ID: 400-123942-16

Date Collected: 05/12/16 10:19

Matrix: Water

Date Received: 07/05/16 10:01

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			259757	07/08/16 13:53	SCB	TAL SL
Total/NA	Analysis	9315		1	262857	08/01/16 08:05	RTM	TAL SL
Total/NA	Prep	PrecSep_0			259762	07/08/16 13:53	SCB	TAL SL
Total/NA	Analysis	9320		1	262466	07/28/16 13:00	RTM	TAL SL
Total/NA	Analysis	Ra226_Ra228		1	263367	08/04/16 00:03	ALS	TAL SL

Lab Chronicle

Client: Georgia Power - Environmental Lab
Project/Site: CCR Plant Scherer

TestAmerica Job ID: 400-123942-1

Client Sample ID: EQB-6

Lab Sample ID: 400-123942-17

Date Collected: 05/12/16 11:30

Matrix: Water

Date Received: 07/05/16 10:01

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			259757	07/08/16 13:53	SCB	TAL SL
Total/NA	Analysis	9315		1	262857	08/01/16 08:05	RTM	TAL SL
Total/NA	Prep	PrecSep_0			259762	07/08/16 13:53	SCB	TAL SL
Total/NA	Analysis	9320		1	262466	07/28/16 13:00	RTM	TAL SL
Total/NA	Analysis	Ra226_Ra228		1	263367	08/04/16 00:03	ALS	TAL SL

Client Sample ID: SGWC-23

Lab Sample ID: 400-123942-18

Date Collected: 05/12/16 14:08

Matrix: Water

Date Received: 07/05/16 10:01

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			259757	07/08/16 13:53	SCB	TAL SL
Total/NA	Analysis	9315		1	262857	08/01/16 11:42	RTM	TAL SL
Total/NA	Prep	PrecSep_0			259762	07/08/16 13:53	SCB	TAL SL
Total/NA	Analysis	9320		1	262466	07/28/16 13:00	RTM	TAL SL
Total/NA	Analysis	Ra226_Ra228		1	263367	08/04/16 00:03	ALS	TAL SL

Client Sample ID: SGWC-20

Lab Sample ID: 400-123942-19

Date Collected: 05/12/16 16:17

Matrix: Water

Date Received: 07/05/16 10:01

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			259757	07/08/16 13:53	SCB	TAL SL
Total/NA	Analysis	9315		1	262857	08/01/16 08:06	RTM	TAL SL
Total/NA	Prep	PrecSep_0			259762	07/08/16 13:53	SCB	TAL SL
Total/NA	Analysis	9320		1	262466	07/28/16 13:00	RTM	TAL SL
Total/NA	Analysis	Ra226_Ra228		1	263367	08/04/16 00:03	ALS	TAL SL

Client Sample ID: SGWC-7

Lab Sample ID: 400-123942-20

Date Collected: 05/11/16 08:28

Matrix: Water

Date Received: 07/09/16 09:13

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			260210	07/12/16 16:38	MCJ	TAL SL
Total/NA	Analysis	9315		1	263198	08/03/16 17:15	RTM	TAL SL
Total/NA	Prep	PrecSep_0			260212	07/12/16 17:07	MCJ	TAL SL
Total/NA	Analysis	9320		1	263018	08/02/16 13:58	RTM	TAL SL
Total/NA	Analysis	Ra226_Ra228		1	263374	08/04/16 02:09	ALS	TAL SL

Lab Chronicle

Client: Georgia Power - Environmental Lab
Project/Site: CCR Plant Scherer

TestAmerica Job ID: 400-123942-1

Client Sample ID: EQB-5

Date Collected: 05/11/16 10:03

Date Received: 07/09/16 09:13

Lab Sample ID: 400-123942-21

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			260210	07/12/16 16:38	MCJ	TAL SL
Total/NA	Analysis	9315		1	263198	08/03/16 17:15	RTM	TAL SL
Total/NA	Prep	PrecSep_0			260212	07/12/16 17:07	MCJ	TAL SL
Total/NA	Analysis	9320		1	263018	08/02/16 13:58	RTM	TAL SL
Total/NA	Analysis	Ra226_Ra228		1	263374	08/04/16 02:09	ALS	TAL SL

Client Sample ID: SGWC-9

Date Collected: 05/11/16 11:31

Date Received: 07/09/16 09:13

Lab Sample ID: 400-123942-22

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			260210	07/12/16 16:38	MCJ	TAL SL
Total/NA	Analysis	9315		1	263198	08/03/16 17:16	RTM	TAL SL
Total/NA	Prep	PrecSep_0			260212	07/12/16 17:07	MCJ	TAL SL
Total/NA	Analysis	9320		1	263018	08/02/16 13:59	RTM	TAL SL
Total/NA	Analysis	Ra226_Ra228		1	263374	08/04/16 02:09	ALS	TAL SL

Client Sample ID: SGWC-12

Date Collected: 05/11/16 14:53

Date Received: 07/09/16 09:13

Lab Sample ID: 400-123942-23

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			260210	07/12/16 16:38	MCJ	TAL SL
Total/NA	Analysis	9315		1	263198	08/03/16 17:16	RTM	TAL SL
Total/NA	Prep	PrecSep_0			260212	07/12/16 17:07	MCJ	TAL SL
Total/NA	Analysis	9320		1	263018	08/02/16 13:59	RTM	TAL SL
Total/NA	Analysis	Ra226_Ra228		1	263374	08/04/16 02:09	ALS	TAL SL

Client Sample ID: DUP-6

Date Collected: 05/11/16 00:00

Date Received: 07/09/16 09:13

Lab Sample ID: 400-123942-24

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			260210	07/12/16 16:38	MCJ	TAL SL
Total/NA	Analysis	9315		1	263544	08/04/16 16:49	RTM	TAL SL
Total/NA	Prep	PrecSep_0			260212	07/12/16 17:07	MCJ	TAL SL
Total/NA	Analysis	9320		1	263018	08/02/16 13:59	RTM	TAL SL
Total/NA	Analysis	Ra226_Ra228		1	263559	08/04/16 23:38	ALS	TAL SL

Lab Chronicle

Client: Georgia Power - Environmental Lab
 Project/Site: CCR Plant Scherer

TestAmerica Job ID: 400-123942-1

Client Sample ID: SGWC-6

Lab Sample ID: 400-123942-25

Date Collected: 05/11/16 09:02

Matrix: Water

Date Received: 07/09/16 09:13

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			260210	07/12/16 16:38	MCJ	TAL SL
Total/NA	Analysis	9315		1	263350	08/03/16 17:24	RTM	TAL SL
Total/NA	Prep	PrecSep_0			260212	07/12/16 17:07	MCJ	TAL SL
Total/NA	Analysis	9320		1	263018	08/02/16 13:59	RTM	TAL SL
Total/NA	Analysis	Ra226_Ra228		1	263374	08/04/16 02:09	ALS	TAL SL

Client Sample ID: SGWC-8

Lab Sample ID: 400-123942-26

Date Collected: 05/11/16 11:40

Matrix: Water

Date Received: 07/09/16 09:13

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			260210	07/12/16 16:38	MCJ	TAL SL
Total/NA	Analysis	9315		1	263351	08/03/16 17:29	RTM	TAL SL
Total/NA	Prep	PrecSep_0			260212	07/12/16 17:07	MCJ	TAL SL
Total/NA	Analysis	9320		1	263018	08/02/16 13:59	RTM	TAL SL
Total/NA	Analysis	Ra226_Ra228		1	263374	08/04/16 02:09	ALS	TAL SL

Client Sample ID: SGWC-11

Lab Sample ID: 400-123942-27

Date Collected: 05/11/16 14:26

Matrix: Water

Date Received: 07/09/16 09:13

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			260210	07/12/16 16:38	MCJ	TAL SL
Total/NA	Analysis	9315		1	263351	08/03/16 17:29	RTM	TAL SL
Total/NA	Prep	PrecSep_0			260212	07/12/16 17:07	MCJ	TAL SL
Total/NA	Analysis	9320		1	263018	08/02/16 13:59	RTM	TAL SL
Total/NA	Analysis	Ra226_Ra228		1	263374	08/04/16 02:09	ALS	TAL SL

Client Sample ID: FIELD BLANK-5

Lab Sample ID: 400-123942-28

Date Collected: 05/11/16 11:56

Matrix: Water

Date Received: 07/09/16 09:13

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			260210	07/12/16 16:38	MCJ	TAL SL
Total/NA	Analysis	9315		1	263351	08/03/16 17:29	RTM	TAL SL
Total/NA	Prep	PrecSep_0			260212	07/12/16 17:07	MCJ	TAL SL
Total/NA	Analysis	9320		1	263018	08/02/16 13:59	RTM	TAL SL
Total/NA	Analysis	Ra226_Ra228		1	263374	08/04/16 02:09	ALS	TAL SL

Lab Chronicle

Client: Georgia Power - Environmental Lab
 Project/Site: CCR Plant Scherer

TestAmerica Job ID: 400-123942-1

Client Sample ID: SGWA-4

Lab Sample ID: 400-123942-29

Date Collected: 05/11/16 10:06

Matrix: Water

Date Received: 07/09/16 09:13

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			260210	07/12/16 16:38	MCJ	TAL SL
Total/NA	Analysis	9315		1	263351	08/03/16 17:29	RTM	TAL SL
Total/NA	Prep	PrecSep_0			260212	07/12/16 17:07	MCJ	TAL SL
Total/NA	Analysis	9320		1	263018	08/02/16 13:59	RTM	TAL SL
Total/NA	Analysis	Ra226_Ra228		1	263374	08/04/16 02:09	ALS	TAL SL

Client Sample ID: SGWC-10

Lab Sample ID: 400-123942-30

Date Collected: 05/11/16 15:55

Matrix: Water

Date Received: 07/09/16 09:13

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			260210	07/12/16 16:38	MCJ	TAL SL
Total/NA	Analysis	9315		1	263351	08/03/16 17:29	RTM	TAL SL
Total/NA	Prep	PrecSep_0			260212	07/12/16 17:07	MCJ	TAL SL
Total/NA	Analysis	9320		1	263018	08/02/16 14:00	RTM	TAL SL
Total/NA	Analysis	Ra226_Ra228		1	263374	08/04/16 02:09	ALS	TAL SL

Client Sample ID: SGWC-19

Lab Sample ID: 400-123942-31

Date Collected: 05/13/16 09:12

Matrix: Water

Date Received: 07/05/16 10:01

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			259757	07/08/16 13:53	SCB	TAL SL
Total/NA	Analysis	9315		1	262857	08/01/16 08:06	RTM	TAL SL
Total/NA	Prep	PrecSep_0			259762	07/08/16 13:53	SCB	TAL SL
Total/NA	Analysis	9320		1	262466	07/28/16 13:00	RTM	TAL SL
Total/NA	Analysis	Ra226_Ra228		1	263367	08/04/16 00:03	ALS	TAL SL

Client Sample ID: DUP-7

Lab Sample ID: 400-123942-32

Date Collected: 05/13/16 00:00

Matrix: Water

Date Received: 07/05/16 10:01

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			259757	07/08/16 13:53	SCB	TAL SL
Total/NA	Analysis	9315		1	262857	08/01/16 08:08	RTM	TAL SL
Total/NA	Prep	PrecSep_0			259762	07/08/16 13:53	SCB	TAL SL
Total/NA	Analysis	9320		1	262466	07/28/16 13:00	RTM	TAL SL
Total/NA	Analysis	Ra226_Ra228		1	263367	08/04/16 00:03	ALS	TAL SL

Lab Chronicle

Client: Georgia Power - Environmental Lab
Project/Site: CCR Plant Scherer

TestAmerica Job ID: 400-123942-1

Client Sample ID: SGWC-18

Lab Sample ID: 400-123942-33

Date Collected: 05/13/16 09:23

Matrix: Water

Date Received: 07/05/16 10:01

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			259757	07/08/16 13:53	SCB	TAL SL
Total/NA	Analysis	9315		1	262859	08/01/16 07:59	RTM	TAL SL
Total/NA	Prep	PrecSep_0			259762	07/08/16 13:53	SCB	TAL SL
Total/NA	Analysis	9320		1	262466	07/28/16 13:00	RTM	TAL SL
Total/NA	Analysis	Ra226_Ra228		1	263367	08/04/16 00:03	ALS	TAL SL

Client Sample ID: EQB-7

Lab Sample ID: 400-123942-34

Date Collected: 05/13/16 10:20

Matrix: Water

Date Received: 07/05/16 10:01

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			259757	07/08/16 14:14	SCB	TAL SL
Total/NA	Analysis	9315		1	262859	08/01/16 07:59	RTM	TAL SL
Total/NA	Prep	PrecSep_0			259762	07/08/16 14:14	SCB	TAL SL
Total/NA	Analysis	9320		1	262466	07/28/16 13:00	RTM	TAL SL
Total/NA	Analysis	Ra226_Ra228		1	263367	08/04/16 00:03	ALS	TAL SL

Laboratory References:

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

QC Association Summary

Client: Georgia Power - Environmental Lab
 Project/Site: CCR Plant Scherer

TestAmerica Job ID: 400-123942-1

Rad

Prep Batch: 259558

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-123942-1	SGWA-3	Total/NA	Water	PrecSep-21	
400-123942-2	SGWA-25	Total/NA	Water	PrecSep-21	
MB 160-259558/1-A	Method Blank	Total/NA	Water	PrecSep-21	
LCS 160-259558/2-A	Lab Control Sample	Total/NA	Water	PrecSep-21	
400-123939-A-1-B DU	Duplicate	Total/NA	Water	PrecSep-21	

Prep Batch: 259562

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-123942-1	SGWA-3	Total/NA	Water	PrecSep_0	
400-123942-2	SGWA-25	Total/NA	Water	PrecSep_0	
MB 160-259562/1-A	Method Blank	Total/NA	Water	PrecSep_0	
LCS 160-259562/2-A	Lab Control Sample	Total/NA	Water	PrecSep_0	
400-123939-A-1-D DU	Duplicate	Total/NA	Water	PrecSep_0	

Prep Batch: 259757

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-123942-3	SGWA-24	Total/NA	Water	PrecSep-21	
400-123942-4	SGWA-5	Total/NA	Water	PrecSep-21	
400-123942-5	DUP-5	Total/NA	Water	PrecSep-21	
400-123942-6	SGWA-1	Total/NA	Water	PrecSep-21	
400-123942-7	SGWA-2	Total/NA	Water	PrecSep-21	
400-123942-10	FIELD BLANK-6	Total/NA	Water	PrecSep-21	
400-123942-11	SGWC-21	Total/NA	Water	PrecSep-21	
400-123942-12	SGWC-13	Total/NA	Water	PrecSep-21	
400-123942-13	SGWC-16	Total/NA	Water	PrecSep-21	
400-123942-14	SGWC-22	Total/NA	Water	PrecSep-21	
400-123942-15	FIELD BLANK-7	Total/NA	Water	PrecSep-21	
400-123942-16	SGWC-15	Total/NA	Water	PrecSep-21	
400-123942-17	EQB-6	Total/NA	Water	PrecSep-21	
400-123942-18	SGWC-23	Total/NA	Water	PrecSep-21	
400-123942-19	SGWC-20	Total/NA	Water	PrecSep-21	
400-123942-31	SGWC-19	Total/NA	Water	PrecSep-21	
400-123942-32	DUP-7	Total/NA	Water	PrecSep-21	
400-123942-33	SGWC-18	Total/NA	Water	PrecSep-21	
400-123942-34	EQB-7	Total/NA	Water	PrecSep-21	
MB 160-259757/1-A	Method Blank	Total/NA	Water	PrecSep-21	
LCS 160-259757/2-A	Lab Control Sample	Total/NA	Water	PrecSep-21	
400-123942-11 DU	SGWC-21	Total/NA	Water	PrecSep-21	

Prep Batch: 259762

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-123942-3	SGWA-24	Total/NA	Water	PrecSep_0	
400-123942-4	SGWA-5	Total/NA	Water	PrecSep_0	
400-123942-5	DUP-5	Total/NA	Water	PrecSep_0	
400-123942-6	SGWA-1	Total/NA	Water	PrecSep_0	
400-123942-7	SGWA-2	Total/NA	Water	PrecSep_0	
400-123942-10	FIELD BLANK-6	Total/NA	Water	PrecSep_0	
400-123942-11	SGWC-21	Total/NA	Water	PrecSep_0	
400-123942-12	SGWC-13	Total/NA	Water	PrecSep_0	
400-123942-13	SGWC-16	Total/NA	Water	PrecSep_0	
400-123942-14	SGWC-22	Total/NA	Water	PrecSep_0	

TestAmerica Pensacola

QC Association Summary

Client: Georgia Power - Environmental Lab
Project/Site: CCR Plant Scherer

TestAmerica Job ID: 400-123942-1

Rad (Continued)

Prep Batch: 259762 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-123942-15	FIELD BLANK-7	Total/NA	Water	PrecSep_0	
400-123942-16	SGWC-15	Total/NA	Water	PrecSep_0	
400-123942-17	EQB-6	Total/NA	Water	PrecSep_0	
400-123942-18	SGWC-23	Total/NA	Water	PrecSep_0	
400-123942-19	SGWC-20	Total/NA	Water	PrecSep_0	
400-123942-31	SGWC-19	Total/NA	Water	PrecSep_0	
400-123942-32	DUP-7	Total/NA	Water	PrecSep_0	
400-123942-33	SGWC-18	Total/NA	Water	PrecSep_0	
400-123942-34	EQB-7	Total/NA	Water	PrecSep_0	
MB 160-259762/1-A	Method Blank	Total/NA	Water	PrecSep_0	
LCS 160-259762/2-A	Lab Control Sample	Total/NA	Water	PrecSep_0	
400-123942-11 DU	SGWC-21	Total/NA	Water	PrecSep_0	

Prep Batch: 260210

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-123942-8	SGWC-14	Total/NA	Water	PrecSep-21	
400-123942-9	SGWC-17	Total/NA	Water	PrecSep-21	
400-123942-20	SGWC-7	Total/NA	Water	PrecSep-21	
400-123942-21	EQB-5	Total/NA	Water	PrecSep-21	
400-123942-22	SGWC-9	Total/NA	Water	PrecSep-21	
400-123942-23	SGWC-12	Total/NA	Water	PrecSep-21	
400-123942-24	DUP-6	Total/NA	Water	PrecSep-21	
400-123942-25	SGWC-6	Total/NA	Water	PrecSep-21	
400-123942-26	SGWC-8	Total/NA	Water	PrecSep-21	
400-123942-27	SGWC-11	Total/NA	Water	PrecSep-21	
400-123942-28	FIELD BLANK-5	Total/NA	Water	PrecSep-21	
400-123942-29	SGWA-4	Total/NA	Water	PrecSep-21	
400-123942-30	SGWC-10	Total/NA	Water	PrecSep-21	
MB 160-260210/1-A	Method Blank	Total/NA	Water	PrecSep-21	
LCS 160-260210/2-A	Lab Control Sample	Total/NA	Water	PrecSep-21	
LCSD 160-260210/3-A	Lab Control Sample Dup	Total/NA	Water	PrecSep-21	

Prep Batch: 260212

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-123942-8	SGWC-14	Total/NA	Water	PrecSep_0	
400-123942-9	SGWC-17	Total/NA	Water	PrecSep_0	
400-123942-20	SGWC-7	Total/NA	Water	PrecSep_0	
400-123942-21	EQB-5	Total/NA	Water	PrecSep_0	
400-123942-22	SGWC-9	Total/NA	Water	PrecSep_0	
400-123942-23	SGWC-12	Total/NA	Water	PrecSep_0	
400-123942-24	DUP-6	Total/NA	Water	PrecSep_0	
400-123942-25	SGWC-6	Total/NA	Water	PrecSep_0	
400-123942-26	SGWC-8	Total/NA	Water	PrecSep_0	
400-123942-27	SGWC-11	Total/NA	Water	PrecSep_0	
400-123942-28	FIELD BLANK-5	Total/NA	Water	PrecSep_0	
400-123942-29	SGWA-4	Total/NA	Water	PrecSep_0	
400-123942-30	SGWC-10	Total/NA	Water	PrecSep_0	
MB 160-260212/1-A	Method Blank	Total/NA	Water	PrecSep_0	
LCS 160-260212/2-A	Lab Control Sample	Total/NA	Water	PrecSep_0	
LCSD 160-260212/3-A	Lab Control Sample Dup	Total/NA	Water	PrecSep_0	

TestAmerica Pensacola

QC Sample Results

Client: Georgia Power - Environmental Lab
 Project/Site: CCR Plant Scherer

TestAmerica Job ID: 400-123942-1

Method: 9315 - Radium-226 (GFPC)

Lab Sample ID: MB 160-259558/1-A
Matrix: Water
Analysis Batch: 262648

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 259558

Analyte	MB MB		Count	Total	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
	Result	Qualifier	Uncert. (2σ+/-)	Uncert. (2σ+/-)						
Radium-226	0.09751	U	0.0993	0.0997	1.00	0.156	pCi/L	07/07/16 11:25	07/29/16 07:14	1
Carrier	MB MB		Limits			Prepared	Analyzed	Dil Fac		
Ba Carrier	%Yield	Qualifier		Prepared	Analyzed					
Ba Carrier	82.3		40 - 110	07/07/16 11:25	07/29/16 07:14	1				

Lab Sample ID: LCS 160-259558/2-A
Matrix: Water
Analysis Batch: 262648

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 259558

Analyte	Spike Added	LCS Result	LCS Qual	Total	RL	MDC	Unit	%Rec	%Rec. Limits
				Uncert. (2σ+/-)					
Radium-226	11.2	13.90		1.52	1.00	0.316	pCi/L	125	68 - 137
Carrier	LCS LCS		Limits			Prepared	Analyzed	Dil Fac	
Ba Carrier	%Yield	Qualifier		Prepared	Analyzed				
Ba Carrier	65.8		40 - 110	07/07/16 11:25	07/29/16 07:14	1			

Lab Sample ID: 400-123939-A-1-B DU
Matrix: Water
Analysis Batch: 262648

Client Sample ID: Duplicate
Prep Type: Total/NA
Prep Batch: 259558

Analyte	Sample Sample		DU	DU	Total	RL	MDC	Unit	RER	RER Limit
	Result	Qual	Result	Qual	Uncert. (2σ+/-)					
Radium-226	-0.0644	U	0.02800	U	0.0943	1.00	0.175	pCi/L	0.56	1
Carrier	DU DU		Limits			Prepared	Analyzed	Dil Fac		
Ba Carrier	%Yield	Qualifier		Prepared	Analyzed					
Ba Carrier	92.9		40 - 110	07/07/16 11:25	07/29/16 07:14	1				

Lab Sample ID: MB 160-259757/1-A
Matrix: Water
Analysis Batch: 262857

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 259757

Analyte	MB MB		Count	Total	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
	Result	Qualifier	Uncert. (2σ+/-)	Uncert. (2σ+/-)						
Radium-226	-0.007883	U	0.0527	0.0527	1.00	0.106	pCi/L	07/08/16 13:53	08/01/16 08:02	1
Carrier	MB MB		Limits			Prepared	Analyzed	Dil Fac		
Ba Carrier	%Yield	Qualifier		Prepared	Analyzed					
Ba Carrier	90.9		40 - 110	07/08/16 13:53	08/01/16 08:02	1				

Lab Sample ID: LCS 160-259757/2-A
Matrix: Water
Analysis Batch: 262857

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 259757

Analyte	Spike Added	LCS Result	LCS Qual	Total	RL	MDC	Unit	%Rec	%Rec. Limits
				Uncert. (2σ+/-)					
Radium-226	11.2	14.43		1.42	1.00	0.110	pCi/L	129	68 - 137

TestAmerica Pensacola

QC Sample Results

Client: Georgia Power - Environmental Lab
 Project/Site: CCR Plant Scherer

TestAmerica Job ID: 400-123942-1

Method: 9315 - Radium-226 (GFPC) (Continued)

Lab Sample ID: LCS 160-259757/2-A
Matrix: Water
Analysis Batch: 262857

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 259757

Carrier	LCS %Yield	LCS Qualifier	Limits
Ba Carrier	93.4		40 - 110

Lab Sample ID: 400-123942-11 DU
Matrix: Water
Analysis Batch: 262857

Client Sample ID: SGWC-21
Prep Type: Total/NA
Prep Batch: 259757

Analyte	Sample Result	Sample Qual	DU Result	DU Qual	Total Uncert. (2σ+/-)	RL	MDC	Unit	RER	RER Limit
Radium-226	0.0585	U	0.01046	U	0.0488	1.00	0.0935	pCi/L	0.46	1

Carrier	DU %Yield	DU Qualifier	Limits
Ba Carrier	92.0		40 - 110

Lab Sample ID: MB 160-260210/1-A
Matrix: Water
Analysis Batch: 263198

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 260210

Analyte	MB Result	MB Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.05586	U	0.131	0.131	1.00	0.231	pCi/L	07/12/16 16:38	08/03/16 17:15	1

Carrier	MB %Yield	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
Ba Carrier	79.8		40 - 110	07/12/16 16:38	08/03/16 17:15	1

Lab Sample ID: LCS 160-260210/2-A
Matrix: Water
Analysis Batch: 263198

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 260210

Analyte	Spike Added	LCS Result	LCS Qual	Total Uncert. (2σ+/-)	RL	MDC	Unit	%Rec	%Rec. Limits
Radium-226	11.2	13.95		1.45	1.00	0.146	pCi/L	125	68 - 137

Carrier	LCS %Yield	LCS Qualifier	Limits
Ba Carrier	89.2		40 - 110

Lab Sample ID: LCSD 160-260210/3-A
Matrix: Water
Analysis Batch: 263198

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 260210

Analyte	Spike Added	LCSD Result	LCSD Qual	Total Uncert. (2σ+/-)	RL	MDC	Unit	%Rec	%Rec. Limits	RER	RER Limit
Radium-226	11.2	14.44		1.49	1.00	0.210	pCi/L	129	68 - 137	0.17	1

Carrier	LCSD %Yield	LCSD Qualifier	Limits
Ba Carrier	87.2		40 - 110

TestAmerica Pensacola

QC Sample Results

Client: Georgia Power - Environmental Lab
 Project/Site: CCR Plant Scherer

TestAmerica Job ID: 400-123942-1

Method: 9320 - Radium-228 (GFPC)

Lab Sample ID: MB 160-259562/1-A
Matrix: Water
Analysis Batch: 262450

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 259562

Analyte	MB MB		Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
	Result	Qualifier								
Radium-228	0.2753	U	0.258	0.259	1.00	0.415	pCi/L	07/07/16 11:25	07/28/16 13:03	1
Carrier	MB MB		Limits			Prepared	Analyzed	Dil Fac		
	%Yield	Qualifier								
Ba Carrier	82.3			40 - 110						
Y Carrier	84.5		40 - 110		07/07/16 11:25	07/28/16 13:03	1			

Lab Sample ID: LCS 160-259562/2-A
Matrix: Water
Analysis Batch: 262450

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 259562

Analyte	Spike Added	LCS Result	LCS Qual	Total Uncert. (2σ+/-)	RL	MDC	Unit	%Rec	%Rec. Limits
Carrier	LCS LCS		Limits			Prepared	Analyzed	Dil Fac	
	%Yield	Qualifier							
Ba Carrier	65.8			40 - 110					
Y Carrier	81.5		40 - 110		07/07/16 11:25	07/28/16 13:03	1		

Lab Sample ID: 400-123939-A-1-D DU
Matrix: Water
Analysis Batch: 262450

Client Sample ID: Duplicate
Prep Type: Total/NA
Prep Batch: 259562

Analyte	Sample Sample		DU Result	DU Qual	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
	Result	Qual									
Radium-228	0.0883	U	-0.07249	U	0.231	1.00	0.424	pCi/L			1
Carrier	DU DU		Limits			Prepared	Analyzed	Dil Fac			
	%Yield	Qualifier									
Ba Carrier	92.9			40 - 110							
Y Carrier	87.5		40 - 110		07/07/16 11:25	07/28/16 13:03	1				

Lab Sample ID: MB 160-259762/1-A
Matrix: Water
Analysis Batch: 262456

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 259762

Analyte	MB MB		Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
	Result	Qualifier								
Radium-228	0.07853	U	0.259	0.259	1.00	0.448	pCi/L	07/08/16 13:53	07/28/16 12:42	1
Carrier	MB MB		Limits			Prepared	Analyzed	Dil Fac		
	%Yield	Qualifier								
Ba Carrier	90.9			40 - 110						
Y Carrier	83.7		40 - 110		07/08/16 13:53	07/28/16 12:42	1			

TestAmerica Pensacola

QC Sample Results

Client: Georgia Power - Environmental Lab
 Project/Site: CCR Plant Scherer

TestAmerica Job ID: 400-123942-1

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

Lab Sample ID: LCS 160-259762/2-A
Matrix: Water
Analysis Batch: 262456

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 259762

Analyte	Spike Added	LCS Result	LCS Qual	Total Uncert. (2σ+/-)	RL	MDC	Unit	%Rec	%Rec. Limits
Radium-228	14.8	17.86		1.89	1.00	0.467	pCi/L	121	56 - 140

Carrier	LCS %Yield	LCS Qualifier	Limits
Ba Carrier	93.4		40 - 110
Y Carrier	80.7		40 - 110

Lab Sample ID: 400-123942-11 DU
Matrix: Water
Analysis Batch: 262466

Client Sample ID: SGWC-21
Prep Type: Total/NA
Prep Batch: 259762

Analyte	Sample Result	Sample Qual	DU Result	DU Qual	Total Uncert. (2σ+/-)	RL	MDC	Unit	RER	RER Limit
Radium-228	0.157	U	0.4529	U	0.301	1.00	0.462	pCi/L	0.53	1

Carrier	DU %Yield	DU Qualifier	Limits
Ba Carrier	92.0		40 - 110
Y Carrier	79.6		40 - 110

Lab Sample ID: MB 160-260212/1-A
Matrix: Water
Analysis Batch: 263018

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 260212

Analyte	MB Result	MB Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.3177	U	0.280	0.282	1.00	0.447	pCi/L	07/12/16 17:07	08/02/16 13:57	1

Carrier	MB %Yield	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
Ba Carrier	79.8		40 - 110	07/12/16 17:07	08/02/16 13:57	1
Y Carrier	87.1		40 - 110	07/12/16 17:07	08/02/16 13:57	1

Lab Sample ID: LCS 160-260212/2-A
Matrix: Water
Analysis Batch: 263018

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 260212

Analyte	Spike Added	LCS Result	LCS Qual	Total Uncert. (2σ+/-)	RL	MDC	Unit	%Rec	%Rec. Limits
Radium-228	14.8	16.46		1.78	1.00	0.491	pCi/L	111	56 - 140

Carrier	LCS %Yield	LCS Qualifier	Limits
Ba Carrier	89.2		40 - 110
Y Carrier	89.3		40 - 110

QC Sample Results

Client: Georgia Power - Environmental Lab
 Project/Site: CCR Plant Scherer

TestAmerica Job ID: 400-123942-1

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

Lab Sample ID: LCSD 160-260212/3-A
 Matrix: Water
 Analysis Batch: 263018

Client Sample ID: Lab Control Sample Dup
 Prep Type: Total/NA
 Prep Batch: 260212

Analyte	Spike Added	LCSD Result	LCSD Qual	Total Uncert. (2σ+/-)	RL	MDC	Unit	%Rec	%Rec. Limits	RER	RER Limit
Radium-228	14.8	16.82		1.82	1.00	0.455	pCi/L	114	56 - 140	0.10	1

Carrier	LCSD %Yield	LCSD Qualifier	Limits
Ba Carrier	87.2		40 - 110
Y Carrier	87.5		40 - 110

- 1
- 2
- 3
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- 12
- 13

TRANSFER OF SAMPLES



Environmental Laboratory

2480 Maner Road, Bin 39110
Atlanta, Georgia 30339

Phone: (404) 799-2100

Fax: (404) 799-2141

Sample Delivery Group No. 103356

Lab Contact:		Project Name:		Vendor Laboratory Name and Address		Analysis Requested	Remarks
Jolynn Locke		Scherer CCR		Test America 3355 McLemore Drive Pensacola, FL 32514 850-474-1001			
Sample Date	Sample Time	No. of Containers	Project ID#	Laboratory ID#	Date of Sample Transfer		
5/11/2016	8:28	1	SGWC-7	103356001	6-30-16	Radium 226 SW-864 #9315/Radium 228 SW-846 #9320/Ra Combined	
5/11/2016	10:03	1	EQB-5	103356002		Radium 226 SW-864 #9315/Radium 228 SW-846 #9320/Ra Combined	
5/11/2016	11:31	1	SGWC-9	103356003		Radium 226 SW-864 #9315/Radium 228 SW-846 #9320/Ra Combined	
5/11/2016	14:53	1	SGWC-12	103356004		Radium 226 SW-864 #9315/Radium 228 SW-846 #9320/Ra Combined	
5/11/2016		1	DUP-6	103356005		Radium 226 SW-864 #9315/Radium 228 SW-846 #9320/Ra Combined	
5/11/2016	9:02	1	SGWC-6	103356006		Radium 226 SW-864 #9315/Radium 228 SW-846 #9320/Ra Combined	
5/11/2016	11:40	1	SGWC-8	103356007		Radium 226 SW-864 #9315/Radium 228 SW-846 #9320/Ra Combined	
5/11/2016	14:26	1	SGWC-11	103356008		Radium 226 SW-864 #9315/Radium 228 SW-846 #9320/Ra Combined	
5/11/2016	11:56	1	FIELD BLANK-5	103356009		Radium 226 SW-864 #9315/Radium 228 SW-846 #9320/Ra Combined	
5/11/2016	10:06	1	SGWA-4	103356010		Radium 226 SW-864 #9315/Radium 228 SW-846 #9320/Ra Combined	
5/11/2016	15:55	1	SGWC-10	103356011		Radium 226 SW-864 #9315/Radium 228 SW-846 #9320/Ra Combined	
Transfer By (Signature): <i>Linda Locke</i>							
Received By: <i>[Signature]</i>							
Date / Time: 7/5/16 1001							
Comments: Samples preserved with HNO3 to <2 pH							

7/9/16 0913

Environmental Laboratory

2480 Maner Road, Bin 39110
Atlanta, Georgia 30339

Phone: (404) 799-2100

Fax: (404) 799-2141

TRANSFER OF SAMPLES



Sample Delivery Group No. 103368

Lab Contact: Jolynn Locke Email Results To: locke@southernco.com Turnaround Time: (or expected date of results) 21 days Rush Charges Authorized: Yes No x Signature:		Project Name: Scherer CCR		Vendor Laboratory Name and Address Test America 3355 McLemore Drive Pensacola, FL 32514 850-474-1001	
Date of Sample Transfer 6-30-16		Analysis Requested			
Sample Date	Sample Time	No. of Containers	Project ID#	Laboratory ID#	Remarks
5/13/2016	9:12	1	SGWC-19	103368001	Radium 226 SW-864 #9315/Radium 228 SW-846 #9320/Ra Combined
5/13/2016		1	DUP-7	103368002	Radium 226 SW-864 #9315/Radium 228 SW-846 #9320/Ra Combined
5/13/2016	9:23	1	SGWC-18	103368003	Radium 226 SW-864 #9315/Radium 228 SW-846 #9320/Ra Combined
5/13/2016	10:20	1	EQB-7	103368004	Radium 226 SW-864 #9315/Radium 228 SW-846 #9320/Ra Combined
Received By: <i>[Signature]</i>					
Date / Time: 7/5/16 1001					
Comments: Samples preserved with HNO3 to <2 pH					

[Signature] 7/9/16 0913



Login Sample Receipt Checklist

Client: Georgia Power - Environmental Lab

Job Number: 400-123942-1

Login Number: 123942

List Number: 1

Creator: Perez, Trina M

List Source: TestAmerica Pensacola

Question	Answer	Comment
Radioactivity wasn't checked or is \leq background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	N/A	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	N/A	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	N/A	Thermal preservation not required.
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 <math><6\text{mm}</math> (1/4").	N/A	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	



Certification Summary

Client: Georgia Power - Environmental Lab
Project/Site: CCR Plant Scherer

TestAmerica Job ID: 400-123942-1

Laboratory: TestAmerica Pensacola

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

Authority	Program	EPA Region	Certification ID	Expiration Date
Alabama	State Program	4	40150	06-30-17
Arizona	State Program	9	AZ0710	01-11-17
Arkansas DEQ	State Program	6	88-0689	09-01-16
California	ELAP	9	2510	03-31-18
Florida	NELAP	4	E81010	06-30-17
Georgia	State Program	4	N/A	06-30-17
Illinois	NELAP	5	200041	10-09-16
Iowa	State Program	7	367	07-31-16 *
Kansas	NELAP	7	E-10253	10-31-16
Kentucky (UST)	State Program	4	53	06-30-17
Kentucky (WW)	State Program	4	98030	12-31-16
Louisiana	NELAP	6	30976	06-30-17
Maryland	State Program	3	233	09-30-17
Massachusetts	State Program	1	M-FL094	06-30-17
Michigan	State Program	5	9912	05-06-17
New Jersey	NELAP	2	FL006	06-30-17
North Carolina (WW/SW)	State Program	4	314	12-31-16
Oklahoma	State Program	6	9810	08-31-16
Pennsylvania	NELAP	3	68-00467	01-31-17
Rhode Island	State Program	1	LAO00307	12-30-16
South Carolina	State Program	4	96026	06-30-16 *
Tennessee	State Program	4	TN02907	06-30-17
Texas	NELAP	6	T104704286-15-9	09-30-16
USDA	Federal		P330-16-00172	05-24-19
Virginia	NELAP	3	460166	06-14-17
Washington	State Program	10	C915	05-15-17
West Virginia DEP	State Program	3	136	08-31-16

Laboratory: TestAmerica St. Louis

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

Authority	Program	EPA Region	Certification ID	Expiration Date
Alaska	State Program	10	MO00054	06-30-17
California	State Program	9	2886	03-31-18
Connecticut	State Program	1	PH-0241	03-31-17
Florida	NELAP	4	E87689	06-30-17
Illinois	NELAP	5	003757	11-30-16
Iowa	State Program	7	373	12-01-16
Kansas	NELAP	7	E-10236	07-31-16 *
Kentucky (DW)	State Program	4	90125	12-31-16
L-A-B	DoD ELAP		L2305	04-06-19
Louisiana	NELAP	6	04080	06-30-17
Louisiana (DW)	NELAP	6	LA160008	12-31-16
Maryland	State Program	3	310	09-30-17
Missouri	State Program	7	780	06-30-17
Nevada	State Program	9	MO000542016-1	07-31-17
New Jersey	NELAP	2	MO002	06-30-17
New York	NELAP	2	11616	03-31-17
North Dakota	State Program	8	R207	06-30-17
NRC	NRC		24-24817-01	12-31-22

* Certification renewal pending - certification considered valid.

TestAmerica Pensacola

Certification Summary

Client: Georgia Power - Environmental Lab
Project/Site: CCR Plant Scherer

TestAmerica Job ID: 400-123942-1

Laboratory: TestAmerica St. Louis (Continued)

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

Authority	Program	EPA Region	Certification ID	Expiration Date
Oklahoma	State Program	6	9997	08-31-16 *
Pennsylvania	NELAP	3	68-00540	02-28-17 *
South Carolina	State Program	4	85002001	06-30-16 *
Texas	NELAP	6	T104704193-15-9	07-31-17
USDA	Federal		P330-07-00122	01-09-17
Utah	NELAP	8	MO000542015-7	07-31-16 *
Virginia	NELAP	3	460230	06-14-17
Washington	State Program	10	C592	08-30-16 *
West Virginia DEP	State Program	3	381	08-31-16 *

* Certification renewal pending - certification considered valid.

TestAmerica Pensacola



Product Name: Low-Flow System

Date: 2016-05-10 10:21:43

Project Information:

Operator Name
Company Name
Project Name
Site Name
Latitude
Longitude
Sonde SN
Turbidity Make/Model

Rachel ~~Samuel~~ Samuels *RA*
AECOM
~~SGS~~ Plant Scherer - Ash Pond *RA*
~~Default Site~~ SGWA-1
~~00°0'0" 33°4'35.65"~~
~~00°0'0" -83°49'45.70"~~ *RA*
457516
Lamotte 2020we

Pump Information:

Pump Model/Type
Tubing Type
Tubing Diameter
Tubing Length

~~MP50~~ Bladder *RA*
Poly
0.17 in
53 ft

Pump placement from TOC

~~6 ft~~ 48' *RA*

Well Information:

Well ID
Well diameter
Well Total Depth
Screen Length
Depth to Water

SGWA-1
2 in
53.4 ft
10 ft
34.68 ft

Pumping Information:

Final Pumping Rate
Total System Volume
Calculated Sample Rate
Stabilization Drawdown
Total Volume Pumped

200 mL/min
0.5765614 L
300 sec
14 in
18.5 L

Low-Flow Sampling Stabilization Summary

	Time	Elapsed	Temp C	pH	SpCond μ S/cm	Turb NTU	DTW ft	RDO mg/L	ORP mV
Stabilization			+/- 0.5	+/- 0.1	+/- 5%	+/- 5		+/- 0.2	+/- 20
Last 5	09:57:34	5399.98	18.45	5.49	46.58	3.50	35.89	0.16	60.43
Last 5	10:02:34	5699.98	18.47	5.50	44.25	4.12	35.89	0.16	60.99
Last 5	10:07:33	5999.92	18.45	5.51	44.50	3.49	35.89	0.16	61.66
Last 5	10:12:33	6299.92	18.47	5.52	46.73	2.59	35.89	0.18	62.30
Last 5	10:17:33	6599.91	18.52	5.51	45.02	3.04	35.89	0.20	63.74
Variance 0			-0.02	0.01	0.25			0.01	0.66
Variance 1			0.03	0.01	2.23			0.01	0.64
Variance 2			0.05	-0.00	-1.71			0.02	1.44

Notes

Changed flow rate from 0.1 to 0.15 at 857. Changed flow rate from 0.15 to 0.2 at 907.

Grab Samples

SGWA-1
Plant Scherer Ash Pond; overcast; 1022 - Sample Time. *RA*
up-gradient

Product Name: Low-Flow System

Date: 2016-05-10 16:13:06

Project Information:

Operator Name Rachel Samuels
Company Name AECOM
Project Name ~~SGS~~ Plant Scherer - Ash Pond *PH*
Site Name SGWA-2
Latitude ~~00° 01' 33.04" N~~ 33° 4' 35.69" *PH*
Longitude ~~00° 01' 33.04" W~~ 83° 49' 45.59" *PH*
Sonde SN 457516
Turbidity Make/Model Lamotte 2020we

Pump Information:

Pump Model/Type ~~QED MP50~~ *Bladder*
Tubing Type Poly
Tubing Diameter 0.17 in
Tubing Length 100 ft

Pump placement from TOC

~~6 ft~~ 93' *PH*

Well Information:

Well ID SGWA-2
Well diameter 2 in
Well Total Depth 98.5 ft
Screen Length 10 ft
Depth to Water 34.23 ft

Pumping Information:

Final Pumping Rate 150 mL/min
Total System Volume 0.7863423 L
Calculated Sample Rate 300 sec
Stabilization Drawdown 5 in
Total Volume Pumped 24.25 L

Low-Flow Sampling Stabilization Summary

	Time	Elapsed	Temp C	pH	SpCond µS/cm	Turb NTU	DTW ft	RDO mg/L	ORP mV
Stabilization			+/- 0.5	+/- 0.1	+/- 5%	+/- 5		+/- 0.2	+/- 20
Last 5	15:48:51	9603.77	20.96	6.83	104.66	4.93	35.62	5.25	83.28
Last 5	15:53:51	9903.78	20.76	6.83	103.32	4.70	35.62	5.27	83.25
Last 5	15:58:51	10203.77	20.53	6.83	112.32	4.95	35.62	5.39	83.27
Last 5	16:03:51	10503.77	21.03	6.83	115.71	4.87	35.62	5.41	83.11
Last 5	16:08:51	10803.78	21.01	6.83	115.59	4.35	35.62	5.32	83.39
Variance 0			-0.23	-0.00	9.00			0.13	0.02
Variance 1			0.51	0.00	3.39			0.02	-0.16
Variance 2			-0.02	0.00	-0.12			-0.09	0.28

Notes

Changed flow rate from .1 to .15 L/min at 1410. Sunny.

Sample Time: 16:18 PH

Grab Samples

SGWA-2

Plant Scherer Ash Pond, up-gradient *PH*

Product Name: Low-Flow System

Date: 2016-05-10 09:47:38

Project Information:

Operator Name R. Hilliard
Company Name AECOM
Project Name Plant Scherer - Ash Pond
Site Name SGWA-3
Latitude 33° 4' 45.5"
Longitude 83° 49' 52.6"
Sonde SN 440275
Turbidity Make/Model LaMotte 2020we

Pump Information:

Pump Model/Type
Tubing Type polyethylene
Tubing Diameter 0.17 in
Tubing Length 60 ft

Pump placement from TOC 48.2 ft

Well Information:

Well ID SGWA-3
Well diameter 2 in
Well Total Depth 53.2 ft
Screen Length 10 ft
Depth to Water 29.70 ft

Pumping Information:

Final Pumping Rate 100 mL/min
Total System Volume 0.5078054 L
Calculated Sample Rate 300 sec
Stabilization Drawdown 0 in
Total Volume Pumped 9.8 L

Low-Flow Sampling Stabilization Summary

	Time	Elapsed	Temp C	pH	SpCond μ S/cm	Turb NTU	DTW ft	RDO mg/L	ORP mV
Stabilization			+/- 0.5	+/- 0.1	+/- 5%	+/- 10%		+/- 0.2	+/- 10
Last 5	09:23:42	4499.95	18.64	5.74	100.78	1.35	33.81	3.31	66.18
Last 5	09:28:42	4799.95	18.65	5.75	101.36	0.79	33.86	3.32	65.36
Last 5	09:33:42	5099.95	18.63	5.75	101.55	0.70	33.92	3.27	65.47
Last 5	09:38:42	5399.95	18.61	5.75	101.07	0.61	33.95	3.27	65.46
Last 5	09:43:42	5699.95	18.57	5.75	101.37	0.48	33.99	3.28	64.76
Variance 0			-0.01	0.01	0.19			-0.04	0.11
Variance 1			-0.02	-0.00	-0.48			-0.00	-0.01
Variance 2			-0.05	-0.00	0.30			0.01	-0.70

Notes

Overcast, approx 65F

Overcast, 65F, intermittent light rain. 08:23 adjust pumping rate to 100 mL/min. Sample Time: 09:47. Final flow rate 100mL/min.

Grab Samples

SGWA-3
Ash Pond (up-gradient)

Product Name: Low-Flow System

Date: 2016-05-11 10:09:03

Project Information:

Operator Name Charles Watson
Company Name AECOM
Project Name ~~SGS~~ Plant Scherer - Ash Pond *RL*
Site Name SGWA-4
Latitude 33° 3' 55.93"
Longitude -83° -48' -23.26"
Sonde SN 456959
Turbidity Make/Model Lamotte 2020we

Pump Information:

Pump Model/Type bladder
Tubing Type Poly
Tubing Diameter 0.17 in
Tubing Length 70 ft

Pump placement from TOC

~~53.8 ft~~ 58.8' *RL*

Well Information:

Well ID SGWA-4
Well diameter 2 in
Well Total Depth 63.8 ft
Screen Length 10 ft
Depth to Water 47.15 ft

Pumping Information:

Final Pumping Rate 100 mL/min
Total System Volume 0.5024396 L
Calculated Sample Rate 300 sec
Stabilization Drawdown 22.6 in
Total Volume Pumped 7 L

Low-Flow Sampling Stabilization Summary

	Time	Elapsed	Temp C	pH	SpCond μ S/cm	Turb NTU	DTW ft	RDO mg/L	ORP mV
Stabilization			+/- 0.5	+/- 0.1	+/- 5%	+/- 5		+/- 0.2	+/- 20
Last 5	09:44:57	2700.00	19.08	6.49	176.13	2.24	49.00	2.63	67.68
Last 5	09:49:57	3000.00	19.04	6.49	174.57	1.54	49.00	2.60	67.26
Last 5	09:54:57	3300.00	19.01	6.48	173.51	1.28	49.02	2.55	66.61
Last 5	09:59:57	3600.04	19.06	6.49	172.09	1.17	49.04	2.47	66.10
Last 5	10:04:57	3900.02	19.02	6.49	170.75	1.09	49.04	2.41	65.25
Variance 0			-0.03	-0.00	-1.06			-0.05	-0.65
Variance 1			0.04	0.00	-1.43			-0.08	-0.51
Variance 2			-0.04	0.00	-1.33			-0.06	-0.85

Notes

Sunny and humid 70F. Also labeled APA-3. Well site in good condition
No changes to rate. Sampling started at 10:06am.

Grab Samples

SGWA-4 *RL*
Ash Pond - up-gradient

Product Name: Low-Flow System

Date: 2016-05-10 11:46:03

Project Information:

Operator Name Charles Watson
Company Name AECOM
Project Name ~~SGS~~ Plant Scherer - Ash Pond
Site Name SGWA-5
Latitude 33° 3' 55.93"
Longitude -83° -48' -23.26"
Sonde SN 456959
Turbidity Make/Model Lamotte 2020we

Pump Information:

Pump Model/Type peristaltic
Tubing Type Poly
Tubing Diameter 0.17 in
Tubing Length 35 ft

Pump placement from TOC 28 ft

Well Information:

Well ID SGWA-5
Well diameter 2 in
Well Total Depth 33.1 ft
Screen Length 10 ft
Depth to Water 14.55 ft

Pumping Information:

Final Pumping Rate 150 mL/min
Total System Volume 0.4462198 L
Calculated Sample Rate 300 sec
Stabilization Drawdown 6.72 in
Total Volume Pumped 7.13 L

Low-Flow Sampling Stabilization Summary

	Time	Elapsed	Temp C	pH	SpCond μ S/cm	Turb NTU	DTW ft	RDO mg/L	ORP mV
Stabilization			+/- 0.5	+/- 0.1	+/- 5%	+/- 5		+/- 0.2	+/- 20
Last 5	11:22:38	1500.02	18.70	5.87	68.36	0.24	15.11	3.56	74.86
Last 5	11:27:38	1800.02	18.73	5.86	68.42	0.27	15.11	3.44	74.85
Last 5	11:32:38	2100.02	18.79	5.85	67.23	0.45	15.11	3.37	74.82
Last 5	11:37:38	2400.00	18.88	5.85	66.07	0.62	15.11	3.30	74.80
Last 5	11:42:38	2700.00	18.70	5.84	66.29	0.32	15.11	3.24	73.18
Variance 0			0.06	-0.01	-1.19			-0.08	-0.03
Variance 1			0.09	-0.00	-1.16			-0.07	-0.02
Variance 2			-0.18	-0.01	0.22			-0.06	-1.62

Notes

Cloudy with sun starting to shine. 70F.
No rate changes. Sampling started at 1146am. Duplicate collected at this well, DUP-5.

Grab Samples

SGWA-5 Ash Pond - up gradient *AW*
DUP-5 QC sample: Field Duplicate *AW*

Product Name: Low-Flow System

Date: 2016-05-11 09:00:37

Project Information:

Operator Name Rachel Samuels
Company Name AECOM
Project Name ~~SGS~~ Plant Scherer - Ash Pond *RA*
Site Name ~~SGWC-6~~ SGWC-6 *RA*
Latitude ~~00° 0' 0"~~ 33° 5' 4.67" *RA*
Longitude ~~000° 0' 0"~~ -83° 49' 21.29" *RA*
Sonde SN 457516
Turbidity Make/Model Lamotte 2020we

Pump Information:

Pump Model/Type peristaltic
Tubing Type Poly
Tubing Diameter 0.17 in
Tubing Length 32 ft

Pump placement from TOC 6 ft

Well Information:

Well ID SGWC-6
Well diameter 2 in
Well Total Depth 27.7 ft
Screen Length 10 ft
Depth to Water 13.23 ft

Pumping Information:

Final Pumping Rate 100 mL/min
Total System Volume 0.4328295 L
Calculated Sample Rate 300 sec
Stabilization Drawdown 20 in
Total Volume Pumped 5 L

Low-Flow Sampling Stabilization Summary

	Time	Elapsed	Temp C	pH	SpCond μ S/cm	Turb NTU	DTW ft	RDO mg/L	ORP mV
Stabilization			+/- 0.5	+/- 0.1	+/- 5%	+/- 5		+/- 0.2	+/- 20
Last 5	08:37:10	1800.10	17.63	6.41	138.40	0.30	14.82	1.73	75.85
Last 5	08:42:10	2100.03	17.72	6.40	138.13	0.48	14.90	1.66	75.17
Last 5	08:47:10	2400.03	17.83	6.40	137.55	0.38	14.95	1.61	74.19
Last 5	08:52:10	2700.03	17.99	6.39	136.92	0.43	14.97	1.48	72.95
Last 5	08:57:14	3004.03	18.12	6.39	136.85	0.48	15.02	1.44	73.13
Variance 0			0.11	-0.01	-0.58			-0.05	-0.99
Variance 1			0.16	-0.00	-0.63			-0.13	-1.24
Variance 2			0.13	0.00	-0.07			-0.04	0.18

Notes

Continued purging until water level stabilized to three readings within a tenth of a foot. Due to large volume of purge water attributable to draw-down during early portion of purge. *RA*

Grab Samples
SGWC-6

Plant Scherer Ash Pond, down-gradient *RA*

Product Name: Low-Flow System

Date: 2016-05-11 08:26:53

Project Information:

Operator Name R. Hilliard
Company Name AECOM
Project Name Plant Scherer - Ash Pond
Site Name SGWC-7
Latitude 33° 5' 9.5"
Longitude 83° 49' 17.9"
Sonde SN 440275
Turbidity Make/Model LaMotte 2020we

Pump Information:

Pump Model/Type peristaltic
Tubing Type polyethylene
Tubing Diameter 0.17 in
Tubing Length 40 ft

Pump placement from TOC 32.8 ft

Well Information:

Well ID SGWC-7
Well diameter 2 in
Well Total Depth 37.8 ft
Screen Length 10 ft
Depth to Water 12.54 ft

Pumping Information:

Final Pumping Rate 100 mL/min
Total System Volume 0.2685369 L
Calculated Sample Rate 300 sec
Stabilization Drawdown 1.9 in
Total Volume Pumped 4.35 L

Low-Flow Sampling Stabilization Summary

	Time	Elapsed	Temp C	pH	SpCond μ S/cm	Turb NTU	DTW ft	RDO mg/L	ORP mV
Stabilization			+/- 0.5	+/- 0.1	+/- 5%	+/- 10%		+/- 0.2	+/- 10
Last 5	08:03:56	1500.02	17.77	6.70	440.62	3.97	12.68	1.10	47.54
Last 5	08:08:56	1800.07	17.84	6.70	434.65	2.22	12.69	1.10	33.66
Last 5	08:13:56	2100.07	17.94	6.69	432.81	2.05	12.69	1.15	27.03
Last 5	08:18:56	2400.07	18.03	6.67	431.15	2.26	12.70	1.06	22.91
Last 5	08:23:56	2700.07	18.13	6.66	428.04	1.61	12.70	0.96	19.36
Variance 0			0.10	-0.01	-1.84			0.04	-6.63
Variance 1			0.09	-0.02	-1.66			-0.08	-4.12
Variance 2			0.10	-0.01	-3.11			-0.11	-3.56

Notes

Clear, sunny, 65F.
Sample time: 08:28

Grab Samples

SGWC-7
Ash Pond - down gradient

EQB-5

QC sample - equipment blank *for*

Product Name: Low-Flow System

Date: 2016-05-11 11:33:00

Project Information:

Operator Name Rachel Samuels
Company Name AECOM
Project Name ~~SGS~~ Plant Scherer - Ash Pond *RA*
Site Name ~~Default Site~~ SGWC-8 *RA*
Latitude ~~00° 0' 0" 33° 5' 11.62" N~~
Longitude ~~00° 0' 0" 83° 49' 9.48" W~~ *RA*
Sonde SN 457516
Turbidity Make/Model Lamotte 2020we

Pump Information:

Pump Model/Type peristaltic
Tubing Type Poly
Tubing Diameter 0.17 in
Tubing Length 50 ft

Pump placement from TOC

~~6 ft~~ 38'

Well Information:

Well ID SGWC-8
Well diameter 2 in
Well Total Depth 42.8 ft
Screen Length 10 ft
Depth to Water 20.23 ft

Pumping Information:

Final Pumping Rate 100 mL/min
Total System Volume 0.5131711 L
Calculated Sample Rate 300 sec
Stabilization Drawdown 1 in
Total Volume Pumped 3 L

Low-Flow Sampling Stabilization Summary

	Time	Elapsed	Temp C	pH	SpCond μ S/cm	Turb NTU	DTW ft	RDO mg/L	ORP mV
Stabilization			+/- 0.5	+/- 0.1	+/- 5%	+/- 5		+/- 0.2	+/- 20
Last 5	11:10:58	600.03	21.96	6.34	647.63	1.64	20.31	1.28	106.09
Last 5	11:15:58	900.03	21.77	6.34	650.55	1.15	20.31	1.04	98.34
Last 5	11:20:58	1200.03	21.72	6.35	645.17	1.28	20.31	0.99	93.84
Last 5	11:25:58	1499.98	21.70	6.35	639.56	1.25	20.32	0.97	90.83
Last 5	11:30:58	1799.98	21.51	6.35	630.94	0.94	20.32	0.96	88.57
Variance 0			-0.05	0.01	-5.38			-0.06	-4.50
Variance 1			-0.02	0.01	-5.61			-0.02	-3.02
Variance 2			-0.20	-0.01	-8.62			-0.01	-2.25

Notes Sample Time: 11:40 *RA*

Grab Samples

SGWC-8
Plant Scherer Ash Pond, down-gradient

Product Name: Low-Flow System

Date: 2016-05-11 11:29:47

Project Information:

Operator Name R. Hilliard
Company Name AECOM
Project Name Plant Scherer - Ash Pond
Site Name SGWC-9
Latitude 33° 5' 9.2"
Longitude 83° 49' 3.9"
Sonde SN 440275
Turbidity Make/Model LaMotte 2020we

Pump Information:

Pump Model/Type peristaltic
Tubing Type polyethylene
Tubing Diameter 0.17 in
Tubing Length 40 ft

Pump placement from TOC 32.8 ft

Well Information:

Well ID SGWC-9
Well diameter 2 in
Well Total Depth 37.8 ft
Screen Length 10 ft
Depth to Water 19.21 ft

Pumping Information:

Final Pumping Rate 100 mL/min
Total System Volume 0.2685369 L
Calculated Sample Rate 300 sec
Stabilization Drawdown 6.4 in
Total Volume Pumped 3.5 L

Low-Flow Sampling Stabilization Summary

	Time	Elapsed	Temp C	pH	SpCond μ S/cm	Turb NTU	DTW ft	RDO mg/L	ORP mV
Stabilization			+/- 0.5	+/- 0.1	+/- 5%	+/- 5		+/- 10%	+/- 10
Last 5	11:06:27	600.02	21.83	6.25	841.02	3.24	19.70	0.76	19.84
Last 5	11:11:27	900.02	22.13	6.24	842.07	2.63	19.73	0.71	19.64
Last 5	11:16:27	1200.02	22.85	6.25	823.31	2.45	19.73	0.74	20.88
Last 5	11:21:27	1500.02	23.01	6.25	836.84	2.79	19.74	0.75	21.15
Last 5	11:26:27	1800.11	23.25	6.24	830.99	3.36	19.74	0.78	22.85
Variance 0			0.72	0.00	-18.76			0.03	1.24
Variance 1			0.16	0.00	13.53			0.01	0.27
Variance 2			0.24	-0.01	-5.85			0.03	1.70

Notes

Sunny, 75F, sample time: 11:31 - *Sample Time. FH*

Grab Samples

SGWC-9
Ash Pond, down-gradient

Product Name: Low-Flow System

Date: 2016-05-11 15:59:57

Project Information:

Operator Name Charles Watson
Company Name AECOM
Project Name ~~SES Plant Scherer~~ - Ash Pond *RW*
Site Name SGWC-10
Latitude 33° 5' 1.87"
Longitude -83° -48' -56.7"
Sonde SN 456959
Turbidity Make/Model Lamotte 2020we

Pump Information:

Pump Model/Type peristaltic
Tubing Type Poly
Tubing Diameter 0.17 in
Tubing Length 35 ft

Pump placement from TOC 28 ft

Well Information:

Well ID SGWC-10
Well diameter 2 in
Well Total Depth 32.9 ft
Screen Length 10 ft
Depth to Water 15.76 ft

Pumping Information:

Final Pumping Rate 150 mL/min
Total System Volume 0.3462198 L
Calculated Sample Rate 300 sec
Stabilization Drawdown 19.57 in
Total Volume Pumped 16.78 L

Low-Flow Sampling Stabilization Summary

	Time	Elapsed	Temp C	pH	SpCond μ S/cm	Turb NTU	DTW ft	RDO mg/L	ORP mV
Stabilization			+/- 0.5	+/- 0.1	+/- 5%	+/- 5		+/- 0.2	+/- 20
Last 5	15:33:36	5399.99	20.57	5.71	98.97	0.93	17.38	1.61	45.81
Last 5	15:38:36	5699.98	20.71	5.70	101.21	0.33	17.39	1.52	12.75
Last 5	15:43:36	5999.98	20.85	5.68	101.15	0.51	17.39	1.44	10.06
Last 5	15:48:36	6299.97	20.57	5.69	102.38	0.47	17.39	1.37	-6.92
Last 5	15:53:36	6599.97	20.79	5.70	104.25	0.74	17.39	1.30	-13.33
Variance 0			0.14	-0.02	-0.07			-0.08	-2.68
Variance 1			-0.28	0.01	1.24			-0.07	-16.98
Variance 2			0.22	0.01	1.87			-0.07	-6.41

Notes

Sunny and partially cloudy. 80F. Also old label APC-5. Site in good condition.
No rate changes. Sampling started at 15:55.

Grab Samples

SGWC-10
Ash Pond - down gradient. *RW*

Product Name: Low-Flow System

Date: 2016-05-11 14:20:09

Project Information:

Operator Name Rachel Samuels
 Company Name AECOM
 Project Name ~~SGS~~ Plant Scherer - Ash Pond
 Site Name SGWC-11
 Latitude ~~00° 00' 00"~~ 33° 4' 58.55"
 Longitude ~~00° 00' 00"~~ -83° 48' 53.53"
 Sonde SN 457516
 Turbidity Make/Model Lamotte 2020we

Pump Information:

Pump Model/Type peristaltic
 Tubing Type Poly
 Tubing Diameter 0.17 in
 Tubing Length 56 ft
 Pump placement from TOC ~~12 ft~~ 38' FH

Well Information:

Well ID SGWC-11
 Well diameter 2 in
 Well Total Depth 43.0 ft
 Screen Length 10 ft
 Depth to Water 17.27 ft

Pumping Information:

Final Pumping Rate 100 mL/min
 Total System Volume 0.5399517 L
 Calculated Sample Rate 300 sec
 Stabilization Drawdown 19 in
 Total Volume Pumped 4.5 L

Low-Flow Sampling Stabilization Summary

	Time	Elapsed	Temp C	pH	SpCond μ S/cm	Turb NTU	DTW ft	RDO mg/L	ORP mV
			+/- 0.5	+/- 0.1	+/- 5%	+/- 5		+/- 0.2	+/- 20
Stabilization									
Last 5	13:57:21	1500.03	23.11	5.85	179.75	1.59	18.56	0.28	-8.36
Last 5	14:02:21	1800.03	22.48	5.86	180.36	0.86	18.60	0.26	-13.25
Last 5	14:07:21	2100.03	22.09	5.86	179.67	0.96	18.63	0.25	-16.25
Last 5	14:12:21	2400.03	22.12	5.86	177.38	1.44	18.64	0.23	-18.37
Last 5	14:17:21	2699.97	22.39	5.84	173.99	1.31	18.64	0.23	-21.07
Variance 0			-0.39	0.01	-0.69			-0.01	-3.00
Variance 1			0.04	0.00	-2.29			-0.01	-2.12
Variance 2			0.26	-0.02	-3.38			-0.01	-2.70

Notes

Sample Time: 14:20 FH

Grab Samples
SGWC-11

Plant Scherer Ash Pond, down-gradient FH

Product Name: Low-Flow System

Date: 2016-05-11 14:50:56

Project Information:

Operator Name R. Hilliard
Company Name AECOM
Project Name Plant Scherer - Ash Pond
Site Name SGWC-12
Latitude 33° 4' 58.7"
Longitude 83° 48' 45.7"
Sonde SN 440275
Turbidity Make/Model LaMotte 2020we

Pump Information:

Pump Model/Type peristaltic
Tubing Type polyethylene
Tubing Diameter 0.17 in
Tubing Length 52 ft

Pump placement from TOC 45 ft

Well Information:

Well ID SGWC-12
Well diameter 2 in
Well Total Depth 50.2 ft
Screen Length 10 ft
Depth to Water 13.40 ft

Pumping Information:

Final Pumping Rate 100 mL/min
Total System Volume 0.322098 L
Calculated Sample Rate 300 sec
Stabilization Drawdown 21.2 in
Total Volume Pumped 7.4 L

Low-Flow Sampling Stabilization Summary

	Time	Elapsed	Temp C	pH	SpCond μ S/cm	Turb NTU	DTW ft	RDO mg/L	ORP mV
Stabilization			+/- 0.5	+/- 0.1	+/- 5%	+/- 10%		+/- 10%	+/- 10
Last 5	14:27:35	2400.63	21.91	6.29	349.90	2.25	15.15	0.37	-51.43
Last 5	14:32:35	2700.63	21.42	6.28	348.79	3.39	15.15	0.36	-47.87
Last 5	14:37:35	3000.70	21.38	6.28	347.36	1.90	15.16	0.37	-45.92
Last 5	14:42:35	3300.64	22.49	6.28	347.00	2.41	15.17	0.33	-44.78
Last 5	14:47:35	3600.63	22.94	6.28	343.67	2.01	15.17	0.33	-43.28
Variance 0			-0.05	-0.00	-1.44			0.01	1.95
Variance 1			1:12	-0.00	-0.36			-0.04	1.15
Variance 2			0.45	-0.00	-3.32			-0.00	1.49

Notes

Clear, breezy, 80F
Sample Time: 14:53

Grab Samples

SGWC-12
Ash-pond, down gradient

DUP-6

QC Sample: Field Duplicate. *AL*

Product Name: Low-Flow System

Date: 2016-05-12 10:06:22

Project Information:

Operator Name R. Hilliard
Company Name AECOM
Project Name Plant Scherer - Ash Pond
Site Name SGWC-13
Latitude 33° 4' 55.8"
Longitude -83° -48' -36.4"
Sonde SN 440275
Turbidity Make/Model LaMotte 2020we

Pump Information:

Pump Model/Type peristaltic
Tubing Type polyethylene
Tubing Diameter 0.17 in
Tubing Length 40 ft

Pump placement from TOC 32.8 ft

Well Information:

Well ID SGWC-13
Well diameter 2 in
Well Total Depth 37.8 ft
Screen Length 10 ft
Depth to Water 3.96 ft

Pumping Information:

Final Pumping Rate 110 mL/min
Total System Volume 0.2685369 L
Calculated Sample Rate 300 sec
Stabilization Drawdown 9.1 in
Total Volume Pumped 15.6 L

Low-Flow Sampling Stabilization Summary

	Time	Elapsed	Temp C	pH	SpCond μ S/cm	Turb NTU	DTW ft	RDO mg/L	ORP mV
Stabilization			+/- 0.5	+/- 0.1	+/- 5%	+/- 5		+/- 0.2	+/- 10
Last 5	09:41:41	7200.77	19.46	6.09	282.35	1.40	4.75	0.49	22.23
Last 5	09:46:41	7500.77	19.64	6.09	306.89	2.15	4.74	0.61	26.25
Last 5	09:51:41	7800.77	19.55	6.08	309.45	3.43	4.73	0.58	25.93
Last 5	09:56:41	8100.77	19.59	6.08	312.27	1.67	4.74	0.60	24.64
Last 5	10:01:41	8400.77	19.68	6.09	313.05	3.45	4.72	0.56	24.24
Variance 0			-0.09	-0.01	2.56			-0.03	-0.32
Variance 1			0.04	0.00	2.82			0.02	-1.28
Variance 2			0.09	0.00	0.77			-0.04	-0.41

Notes

Clear, sunny, 70F

Suspended particles visible in turbidity civet (water very clear otherwise); however, turbidity remains under 5 NTU. Per SoCo, collect sample.

Sample time: 10:09.

Grab Samples

SGWC-13

Ash pond, down gradient

Product Name: Low-Flow System

Date: 2016-05-12 08:48:45

Project Information:

Operator Name Rachel Samuels
Company Name AECOM
Project Name *PL* ~~SGS~~ Plant Scherer Ash Pond
Site Name SGWC-14
Latitude 33° 4' 52.5"
Longitude 83° 48' 30.3"
Sonde SN 457516
Turbidity Make/Model Lamotte 2020we

Pump Information:

Pump Model/Type ~~QED MP50~~ *Bladder PL*
Tubing Type Poly
Tubing Diameter 0.17 in
Tubing Length 51 ft

Pump placement from TOC 33 ft

Well Information:

Well ID SGWC-14
Well diameter 2 in
Well Total Depth 38.5 ft
Screen Length 10 ft
Depth to Water 10.65 ft

Pumping Information:

Final Pumping Rate 140 mL/min
Total System Volume 0.5676346 L
Calculated Sample Rate 300 sec
Stabilization Drawdown 0.5 in
Total Volume Pumped 4.8 L

Low-Flow Sampling Stabilization Summary

	Time	Elapsed	Temp C	pH	SpCond μ S/cm	Turb NTU	DTW ft	RDO mg/L	ORP mV
Stabilization			+/- 0.5	+/- 0.1	+/- 5%	+/- 5		+/- 0.2	+/- 20
Last 5	08:26:19	1200.01	17.32	5.82	514.51	2.64	10.70	0.31	39.45
Last 5	08:31:19	1500.02	17.26	5.83	515.05	2.95	10.70	0.28	32.34
Last 5	08:36:19	1800.01	17.20	5.81	514.35	0.74	10.70	0.32	28.32
Last 5	08:41:19	2100.00	17.27	5.80	514.08	2.35	10.70	0.36	25.29
Last 5	08:46:19	2400.00	17.28	5.79	514.22	1.34	10.70	0.40	22.76
Variance 0			-0.06	-0.02	-0.70			0.03	-4.02
Variance 1			0.07	-0.02	-0.27			0.04	-3.03
Variance 2			0.01	-0.00	0.14			0.04	-2.53

Notes

Changed flow rate from .1 to .12 at 826; changed flow rate from .12 to .14 at 846

Grab Samples

SGWC-14 *down*
Plant Scherer Ash Pond, *up* gradient

Product Name: Low-Flow System

Date: 2016-05-12 10:26:08

Project Information:

Operator Name Charles Watson
Company Name AECOM
Project Name Plant Scherer-Ash Pond
Site Name SGWC-15
Latitude 33° 4' 44.89"
Longitude -83° -48' -21.16"
Sonde SN 456959
Turbidity Make/Model Lamotte 2020we

Pump Information:

Pump Model/Type bladder
Tubing Type Poly
Tubing Diameter 0.17 in
Tubing Length 50 ft

Pump placement from TOC 42.8 ft

Well Information:

Well ID SGWC-15
Well diameter 2 in
Well Total Depth 48.2 ft
Screen Length 10 ft
Depth to Water 27.54 ft

Pumping Information:

Final Pumping Rate 150 mL/min
Total System Volume 0.4131711 L
Calculated Sample Rate 300 sec
Stabilization Drawdown 0.48 in
Total Volume Pumped 13.85 L

Low-Flow Sampling Stabilization Summary

	Time	Elapsed	Temp C	pH	SpCond μ S/cm	Turb NTU	DTW ft	RDO mg/L	ORP mV
Stabilization			+/- 0.5	+/- 0.1	+/- 5%	+/- 5		+/- 0.2	+/- 20
Last 5	09:56:46	4200.00	19.13	4.77	528.25	6.24	27.58	0.49	198.00
Last 5	10:01:46	4500.00	19.06	4.77	528.39	5.35	27.58	0.48	206.89
Last 5	10:06:46	4799.96	19.14	4.77	528.08	4.48	27.58	0.47	208.22
Last 5	10:11:46	5099.97	19.22	4.76	529.32	4.10	27.58	0.48	212.75
Last 5	10:16:46	5399.97	19.28	4.76	525.24	3.96	27.58	0.48	218.87
Variance 0			0.08	0.00	-0.31			-0.01	1.34
Variance 1			0.07	-0.01	1.24			0.00	4.53
Variance 2			0.07	-0.00	-4.08			0.00	6.12

Notes

Partially cloudy 70F. Well site in good condition.
No rate changes. Sampling started at 10:19 am. Equipment blank 6, EQB-6, collected off bladder pump.

Grab Samples

SGWC-15
Ash pond down gradient
EQB-6
Equipment Blank 6 on bladder pump

Product Name: Low-Flow System

Date: 2016-05-12 13:46:56

Project Information:

Operator Name R. Hilliard
Company Name AECOM
Project Name Plant Scherer- Ash Pond
Site Name SGWC-16
Latitude 33° 4' 35.3"
Longitude -83° -48' -20.4"
Sonde SN 440275
Turbidity Make/Model LaMotte 2020we

Pump Information:

Pump Model/Type peristaltic
Tubing Type polyethylene
Tubing Diameter 0.17 in
Tubing Length 42 ft

Pump placement from TOC 37 ft

Well Information:

Well ID SGWC-16
Well diameter 2 in
Well Total Depth 43.3 ft
Screen Length 10 ft
Depth to Water 23.49 ft

Pumping Information:

Final Pumping Rate 100 mL/min
Total System Volume 0.2774638 L
Calculated Sample Rate 300 sec
Stabilization Drawdown 0.24 in
Total Volume Pumped 4.7 L

Low-Flow Sampling Stabilization Summary

	Time	Elapsed	Temp C	pH	SpCond μ S/cm	Turb NTU	DTW ft	RDO mg/L	ORP mV
Stabilization			+/- 0.5	+/- 0.1	+/- 5%	+/- 5		+/- 0.2	+/- 10
Last 5	13:24:00	1500.03	23.21	5.29	74.34	1.70	23.55	2.47	158.09
Last 5	13:29:00	1800.03	22.80	5.29	75.97	5.82	23.55	2.49	155.11
Last 5	13:34:00	2100.02	22.31	5.29	76.03	1.50	23.55	2.51	153.18
Last 5	13:39:01	2400.31	22.79	5.28	77.18	1.46	23.55	2.49	152.00
Last 5	13:44:01	2700.31	22.47	5.29	76.95	1.02	23.55	2.50	148.98
Variance 0			-0.50	-0.01	0.06			0.01	-1.93
Variance 1			0.49	-0.01	1.15			-0.02	-1.18
Variance 2			-0.33	0.01	-0.24			0.01	-3.01

Notes

Clear, sunny, breeze, 85F
Sample time: 13:47

Grab Samples

SGWC-16
Ash Pond, down gradient

Product Name: Low-Flow System

Date: 2016-05-12 10:48:23

Project Information:

Operator Name Rachel Samuels
 Company Name AECOM
 Project Name ~~SES~~ Plant Scherer Ash Pond
 Site Name SGWC-17
 Latitude 33° 4' 0" ~~0"~~ 26.29"
 Longitude 83° 48' 0" ~~0"~~ 19.26" *RA*
 Sonde SN 457516
 Turbidity Make/Model Lamotte 2020we

Pump Information:

Pump Model/Type peristaltic
 Tubing Type Poly
 Tubing Diameter 0.17 in
 Tubing Length 40 ft

Pump placement from TOC 22 ft

Well Information:

Well ID SGWC-17
 Well diameter 2 in
 Well Total Depth 27.6 ft
 Screen Length 10 ft
 Depth to Water 0.58 ft

Pumping Information:

Final Pumping Rate 150 mL/min
 Total System Volume 0.5185369 L
 Calculated Sample Rate 300 sec
 Stabilization Drawdown 6 in
 Total Volume Pumped 4.25 L

Low-Flow Sampling Stabilization Summary

	Time	Elapsed	Temp C	pH	SpCond μ S/cm	Turb NTU	DTW ft	RDO mg/L	ORP mV
Stabilization			+/- 0.5	+/- 0.1	+/- 5%	+/- 5		+/- 0.2	+/- 20
Last 5	10:25:46	900.03	20.44	6.21	446.99	2.91	0.95	0.20	46.51
Last 5	10:30:46	1200.03	20.32	6.21	441.52	2.32	0.95	0.18	46.01
Last 5	10:35:46	1500.00	20.10	6.21	432.02	1.79	1.02	0.15	45.81
Last 5	10:40:46	1800.00	19.97	6.21	427.69	1.88	1.02	0.13	45.63
Last 5	10:45:46	2100.00	20.04	6.21	419.46	1.57	1.02	0.12	45.55
Variance 0			-0.21	0.00	-9.50			-0.03	-0.20
Variance 1			-0.13	-0.00	-4.34			-0.02	-0.18
Variance 2			0.07	-0.00	-8.22			-0.01	-0.08

Notes

Changed flow rate from .1 L/min to .15 L/min at 1045

Sample Time: 10:55 *RA*

Grab Samples

SGWC-17
 Ash Pond, ~~up gradient~~ down gradient
 Field Blank-6 *CR*
 Field Blank-6

Product Name: Low-Flow System

Date: 2016-05-13 09:24:05

Project Information:

Operator Name Charles Watson
Company Name AECOM
Project Name Plant Scherer-Ash Pond
Site Name SGWC-18
Latitude 33° 4' 12.8"
Longitude -83° -48' -23.2"
Sonde SN 456959
Turbidity Make/Model Lamotte 2020we

Pump Information:

Pump Model/Type bladder
Tubing Type Poly
Tubing Diameter 0.17 in
Tubing Length 55 ft

Pump placement from TOC 42 ft

Well Information:

Well ID SGWC-18
Well diameter 2 in
Well Total Depth 47.4 ft
Screen Length 10 ft
Depth to Water 32.45 ft

Pumping Information:

Final Pumping Rate 150 mL/min
Total System Volume 0.4354883 L
Calculated Sample Rate 300 sec
Stabilization Drawdown 2.16 in
Total Volume Pumped 11.63 L

Low-Flow Sampling Stabilization Summary

	Time	Elapsed	Temp C	pH	SpCond μ S/cm	Turb NTU	DTW ft	RDO mg/L	ORP mV
Stabilization			+/- 0.5	+/- 0.1	+/- 5%	+/- 5		+/- 0.2	+/- 20
Last 5	09:00:48	3300.02	20.50	4.70	1059.10	5.52	32.63	1.12	104.85
Last 5	09:05:48	3600.00	20.51	4.70	1038.72	5.49	32.63	1.11	103.87
Last 5	09:10:48	3900.00	20.57	4.70	1032.61	4.97	32.63	1.10	103.79
Last 5	09:15:48	4199.99	20.61	4.70	1040.00	3.67	32.63	1.10	103.69
Last 5	09:20:48	4500.00	20.70	4.70	1029.58	3.58	32.63	1.11	103.03
Variance 0			0.06	-0.00	-6.12			-0.01	-0.08
Variance 1			0.04	-0.00	7.39			-0.00	-0.09
Variance 2			0.09	0.00	-10.43			0.01	-0.67

Notes

Sunny with a light breeze 70F. Well site in good condition.
No rate changes. Sampling started at 9:23am. Equipment blank 7 collected on bladder pump

Grab Samples

SGWC-18
Ash pond down gradient
EQB-7
Equipment blank

Product Name: Low-Flow System

Date: 2016-05-13 09:11:23

Project Information:

Operator Name R. Hilliard
Company Name AECOM
Project Name Plant Scherer- Ash Pond
Site Name SGWC-19
Latitude 33° 3' 56.56"
Longitude -83° -48' -24.26"
Sonde SN 440275
Turbidity Make/Model LaMotte 2020we

Pump Information:

Pump Model/Type peristaltic
Tubing Type polyethylene
Tubing Diameter 0.17 in
Tubing Length 40 ft

Pump placement from TOC 32. ft

Well Information:

Well ID SGWC-19
Well diameter 2 in
Well Total Depth 37.4 ft
Screen Length 10 ft
Depth to Water 15.46 ft

Pumping Information:

Final Pumping Rate 100 mL/min
Total System Volume 0.2685369 L
Calculated Sample Rate 300 sec
Stabilization Drawdown 4.4 in
Total Volume Pumped 5.2 L

Low-Flow Sampling Stabilization Summary

	Time	Elapsed	Temp C	pH	SpCond μ S/cm	Turb NTU	DTW ft	RDO mg/L	ORP mV
Stabilization			+/- 0.5	+/- 0.1	+/- 5%	+/- 10		+/- 0.2	+/- 10
Last 5	08:47:46	1800.58	20.40	5.56	567.49	6.76	15.85	3.41	114.07
Last 5	08:52:46	2100.59	20.48	5.57	566.67	6.85	15.84	3.48	114.78
Last 5	08:57:46	2400.66	20.57	5.57	566.44	4.74	15.84	3.37	114.74
Last 5	09:02:46	2700.60	20.78	5.56	566.08	4.08	15.83	3.29	115.55
Last 5	09:07:46	3000.58	20.89	5.55	565.85	3.97	15.83	3.28	115.83
Variance 0			0.09	-0.00	-0.23			-0.11	-0.04
Variance 1			0.21	-0.01	-0.36			-0.08	0.80
Variance 2			0.10	-0.00	-0.22			-0.00	0.28

Notes

Clear, light breeze, 75F
Sample Time: 09:12

Grab Samples

SGWC-19
Ash Pond, down-gradient
DUP-7
QC: field duplicate

Product Name: Low-Flow System

Date: 2016-05-12 16:20:17

Project Information:

Operator Name Charles Watson
Company Name AECOM
Project Name Plant Scherer-Ash Pond
Site Name SGWC-20
Latitude 33° 3' 55.93"
Longitude -83° -48' -23.26"
Sonde SN 456959
Turbidity Make/Model Lamotte 2020we

Pump Information:

Pump Model/Type peristaltic
Tubing Type Poly
Tubing Diameter 0.17 in
Tubing Length 30 ft

Pump placement from TOC 23.3 ft

Well Information:

Well ID SGWC-20
Well diameter 2 in
Well Total Depth 28.3 ft
Screen Length 10 ft
Depth to Water 12.86 ft

Pumping Information:

Final Pumping Rate 150 mL/min
Total System Volume 0.3239027 L
Calculated Sample Rate 300 sec
Stabilization Drawdown 7.44 in
Total Volume Pumped 4.75 L

Low-Flow Sampling Stabilization Summary

	Time	Elapsed	Temp C	pH	SpCond μ S/cm	Turb NTU	DTW ft	RDO mg/L	ORP mV
Stabilization			+/- 0.5	+/- 0.1	+/- 5%	+/- 5		+/- 0.2	+/- 20
Last 5	15:53:22	600.00	22.53	4.37	639.90	0.88	13.44	0.81	238.52
Last 5	15:58:22	900.00	22.50	4.37	607.79	0.80	13.45	0.76	248.29
Last 5	16:03:22	1199.99	22.62	4.37	613.42	0.66	13.45	0.72	254.74
Last 5	16:08:22	1499.99	22.71	4.37	612.50	0.49	13.46	0.68	271.19
Last 5	16:13:22	1799.99	22.40	4.36	611.91	0.39	13.47	0.65	271.82
Variance 0			0.12	0.00	5.63			-0.04	6.45
Variance 1			0.09	0.00	-0.92			-0.04	16.44
Variance 2			-0.31	-0.01	-0.59			-0.03	0.63

Notes

Sunny and humid. 90F. Old ID APC-15
No rate changes. Sampling started at 16:17.

Grab Samples

SGWC-20
Ash pond down gradient

Product Name: Low-Flow System

Date: 2016-05-12 13:57:20

Project Information:

Operator Name Rachel Samuels
Company Name AECOM
Project Name ~~SGS~~ Plant Scherer Ash Pond
Site Name ~~Default Site~~ SGWC-21
Latitude ~~00° 0' 0" N~~ 33° 03' 57.78" N
Longitude ~~00° 0' 0" W~~ 83° 48' 55.33" W
Sonde SN 457516
Turbidity Make/Model Lamotte 2020we

Pump Information:

Pump Model/Type peristaltic
Tubing Type Poly
Tubing Diameter 0.17 in
Tubing Length 40 ft

Pump placement from TOC 22 ft

Well Information:

Well ID SGWC-21
Well diameter 2 in
Well Total Depth 27.6 ft
Screen Length 10 ft
Depth to Water 0.62 ft

Pumping Information:

Final Pumping Rate 150 mL/min
Total System Volume 0.5185369 L
Calculated Sample Rate 300 sec
Stabilization Drawdown 2 in
Total Volume Pumped 4 L

Low-Flow Sampling Stabilization Summary

	Time	Elapsed	Temp C	pH	SpCond μ S/cm	Turb NTU	DTW ft	RDO mg/L	ORP mV
Stabilization			+/- 0.5	+/- 0.1	+/- 5%	+/- 5		+/- 0.2	+/- 20
Last 5	13:32:18	600.03	24.29	5.94	451.01	0.67	0.70	0.18	167.76
Last 5	13:37:18	900.03	23.93	5.94	447.37	0.86	0.75	0.14	169.47
Last 5	13:42:18	1200.03	23.68	5.95	446.81	0.41	0.75	0.14	171.03
Last 5	13:47:18	1499.98	23.67	5.94	446.24	0.72	0.75	0.13	176.55
Last 5	13:52:20	1801.98	23.48	5.95	446.31	0.63	0.75	0.12	174.93
Variance 0			-0.25	0.00	-0.56			-0.01	1.56
Variance 1			-0.01	-0.01	-0.57			-0.01	5.53
Variance 2			-0.19	0.01	0.07			-0.01	-1.62

Notes

Restarted after iPad overheated at 1315. Changed flow rate from .1 L/min to .15 L/min at 1332

Grab Samples

SGWC-21
Plant Scherer Ash Pond, ~~up~~ gradient

Product Name: Low-Flow System

Date: 2016-05-12 17:07:43

Project Information:

Operator Name R. Hilliard
Company Name AECOM
Project Name Plant Scherer- Ash Pond
Site Name SGWC-22
Latitude 33° 3' 59.1"
Longitude -83° -49' -9.4"
Sonde SN 440275
Turbidity Make/Model LaMotte 2020we

Pump Information:

Pump Model/Type bladder
Tubing Type polyethylene
Tubing Diameter 0.17 in
Tubing Length 50 ft

Pump placement from TOC 44 ft

Well Information:

Well ID SGWC-22
Well diameter 2 in
Well Total Depth 52.6 ft
Screen Length 10 ft
Depth to Water 24.97 ft

Pumping Information:

Final Pumping Rate 100 mL/min
Total System Volume 0.4131711 L
Calculated Sample Rate 300 sec
Stabilization Drawdown 0 in
Total Volume Pumped 0 L

Low-Flow Sampling Stabilization Summary

	Time	Elapsed	Temp C	pH	SpCond μ S/cm	Turb NTU	DTW ft	RDO mg/L	ORP mV
Stabilization			+/- 0.5	+/- 0.1	+/- 5%	+/- 5		+/- 0.2	+/- 10
Last 5	16:47:11	5100.93	20.90	5.67	336.00	15.00	25.83	0.15	81.88
Last 5	16:52:11	5400.91	21.38	5.66	336.13	13.90	25.83	0.16	81.30
Last 5	16:57:11	5700.91	21.23	5.66	334.80	15.30	25.83	0.14	80.89
Last 5	17:02:11	6000.91	21.24	5.67	334.58	13.90	25.83	0.12	80.63
Last 5	17:07:11	6300.91	20.93	5.67	335.45	--	--	0.13	79.89
Variance 0			-0.15	0.00	-1.33			-0.02	-0.41
Variance 1			0.01	0.00	-0.22			-0.01	-0.26
Variance 2			-0.32	0.00	0.87			0.01	-0.74

Notes

Breezy, partly cloudy, 85F

Grab Samples

Ash pond down gradient
SGWC-22 + Felt blank 7
taken. See page 2
CW

* Page 1 of 2

Inadvertently hit "Finish Low Flow"
during purge.

PA

Product Name: Low-Flow System

Date: 2016-05-12 18:31:51

Project Information:

Operator Name R. Hilliard
Company Name AECOM
Project Name Plant Scherer- Ash Pond
Site Name SGWC-22
Latitude 33° 3' 59.1"
Longitude -83° -49' -9.4"
Sonde SN 440275
Turbidity Make/Model LaMotte 2020we

Pump Information:

Pump Model/Type bladder
Tubing Type polyethylene
Tubing Diameter 0.17 in
Tubing Length 50 ft

Pump placement from TOC 44 ft

Well Information:

Well ID SGWC-22
Well diameter 2 in
Well Total Depth 52.6 ft
Screen Length 10 ft
Depth to Water 24.97 ft

Pumping Information:

Final Pumping Rate 110 mL/min
Total System Volume 0.4131711 L
Calculated Sample Rate 300 sec
Stabilization Drawdown 10.6 in
Total Volume Pumped 20.8 L

Low-Flow Sampling Stabilization Summary

	Time	Elapsed	Temp C	pH	SpCond μ S/cm	Turb NTU	DTW ft	RDO mg/L	ORP mV
Stabilization			+/- 0.5	+/- 0.1	+/- 5%	+/- 5		+/- 10%	+/- 10
Last 5	18:05:42	3299.92	21.46	5.69	330.84	5.23	25.84	0.10	78.69
Last 5	18:10:42	3599.92	21.32	5.68	333.05	5.91	25.84	0.10	78.78
Last 5	18:15:42	3899.87	20.88	5.69	338.85	4.82	25.85	0.10	79.73
Last 5	18:20:42	4199.87	20.74	5.68	339.99	4.68	25.85	0.11	78.31
Last 5	18:25:42	4499.85	20.35	5.68	339.93	4.80	25.85	0.10	76.74
Variance 0			-0.43	0.01	5.81			-0.00	0.95
Variance 1			-0.14	-0.00	1.14			0.00	-1.42
Variance 2			-0.39	0.00	-0.06			-0.01	-1.57

PH Notes

17:05 Inadvertently hit stop low flow. Continuation of first report

Sample time: 18:30, 15:27-decreased flow from 0.16 LPM to 0.11 LPM, 18:11 - flush flow cell in an effort to reduce persistent turbidity.

Grab Samples

SGWC-22
Ash Pond, down gradient
Field Blank 7
QC sample: field blank

Page 2 of 2 *PH*

Product Name: Low-Flow System

Date: 2016-05-12 14:09:35

Project Information:

Operator Name Charles Watson
Company Name AECOM
Project Name Plant Scherer-Ash Pond
Site Name SGWC-23
Latitude 33° 4' 10.45"
Longitude -83° -49' -19.6"
Sonde SN 456959
Turbidity Make/Model Lamotte 2020we

Pump Information:

Pump Model/Type bladder
Tubing Type Poly
Tubing Diameter 0.17 in
Tubing Length 60 ft

Pump placement from TOC 47.3 ft

Well Information:

Well ID SGWC-23
Well diameter 2 in
Well Total Depth 52.6 ft
Screen Length 10 ft
Depth to Water 30.71 ft

Pumping Information:

Final Pumping Rate 200 mL/min
Total System Volume 0.4578054 L
Calculated Sample Rate 300 sec
Stabilization Drawdown 1.32 in
Total Volume Pumped 6.4 L

Low-Flow Sampling Stabilization Summary

	Time	Elapsed	Temp C	pH	SpCond μ S/cm	Turb NTU	DTW ft	RDO mg/L	ORP mV
Stabilization			+/- 0.5	+/- 0.1	+/- 5%	+/- 5		+/- 0.2	+/- 20
Last 5	13:44:05	600.04	20.55	6.16	422.67	12.40	30.82	1.29	87.12
Last 5	13:49:05	900.02	20.30	6.17	443.08	6.51	30.82	1.27	81.51
Last 5	13:54:05	1200.03	20.22	6.17	440.86	4.58	30.82	1.28	78.39
Last 5	13:59:05	1500.08	20.08	6.18	439.48	2.47	30.82	1.21	75.90
Last 5	14:04:05	1800.07	19.88	6.18	449.89	2.11	30.82	1.18	73.59
Variance 0			-0.08	0.00	-2.22			0.01	-3.12
Variance 1			-0.13	0.00	-1.38			-0.07	-2.49
Variance 2			-0.20	0.00	10.41			-0.03	-2.31

Notes

Sunny with a light breeze. 85F. Well site in good condition. Old ID PZ-4
No rate changes. Sampling started at 14:08.

Grab Samples

SGWC-23
Ash pond down gradient

Product Name: Low-Flow System

Date: 2016-05-10 09:24:58

Project Information:

Operator Name Charles Watson
 Company Name AECOM
 Project Name ~~SGS~~ Plant Scherer - Ash Pond *PH*
 Site Name SGWA-24
 Latitude 33° 3' 55.93"
 Longitude -83° -48' -23.26"
 Sonde SN 456959
 Turbidity Make/Model Lamotte 2020we

Pump Information:

Pump Model/Type peristaltic
 Tubing Type Poly
 Tubing Diameter 0.17 in
 Tubing Length 40 ft

Pump placement from TOC 35.7 ft

Well Information:

Well ID SGWA-24
 Well diameter 2 in
 Well Total Depth 42.9 ft
 Screen Length 10 ft
 Depth to Water 13.62 ft

Pumping Information:

Final Pumping Rate 150 mL/min
 Total System Volume 0.4685369 L
 Calculated Sample Rate 300 sec
 Stabilization Drawdown 4.92 in
 Total Volume Pumped 7.15 L

Low-Flow Sampling Stabilization Summary

	Time	Elapsed	Temp C	pH	SpCond μ S/cm	Turb NTU	DTW ft	RDO mg/L	ORP mV
Stabilization			+/- 0.5	+/- 0.1	+/- 5%	+/- 5		+/- 0.2	+/- 20
Last 5	08:58:24	1500.02	17.97	6.35	154.06	5.02	14.03	2.26	51.40
Last 5	09:03:24	1800.02	17.94	6.34	153.76	3.59	14.03	2.24	51.28
Last 5	09:08:24	2100.02	18.04	6.34	153.51	3.13	14.03	2.20	50.80
Last 5	09:13:24	2400.02	18.09	6.34	153.12	3.06	14.03	2.16	50.54
Last 5	09:18:24	2700.00	18.11	6.34	152.54	2.11	14.03	2.12	50.12
Variance 0			0.10	0.00	-0.25			-0.04	-0.48
Variance 1			0.05	-0.00	-0.39			-0.04	-0.26
Variance 2			0.02	0.00	-0.58			-0.05	-0.41

Notes

Overcast morning. 65F. SGWA-24 also labeled PZ-7S/APA-5
 Overcast 70F. No rate changes. Sampling started at 9:21am.

Grab Samples

SGWA-24
 Ash Pond, up-gradient *PH*

Product Name: Low-Flow System

Date: 2016-05-10 15:36:41

Project Information:

Operator Name R. Hilliard
Company Name AECOM
Project Name Plant Scherer - Ash Pond
Site Name SGWA-25
Latitude 33° 4' 48.6"
Longitude 83° 49' 34.6"
Sonde SN 440275
Turbidity Make/Model LaMotte 2020we

Pump Information:

Pump Model/Type bladder
Tubing Type polyethylene
Tubing Diameter 0.17 in
Tubing Length 53 ft

Pump placement from TOC 42.6 ft

Well Information:

Well ID SGWA-25
Well diameter 2 in
Well Total Depth 48.0 ft
Screen Length 10 ft
Depth to Water 25.40 ft

Pumping Information:

Final Pumping Rate 100 mL/min
Total System Volume 0.4765614 L
Calculated Sample Rate 300 sec
Stabilization Drawdown 1 in
Total Volume Pumped 21.5 L

Low-Flow Sampling Stabilization Summary

	Time	Elapsed	Temp C	pH	SpCond μ S/cm	Turb NTU	DTW ft	RDO mg/L	ORP mV
Stabilization			+/- 0.5	+/- 0.1	+/- 5%	+/- 10%		+/- 10%	+/- 10
Last 5	15:11:09	11700.26	22.32	6.14	163.43	5.58	25.50	0.20	-21.02
Last 5	15:16:09	12000.27	22.32	6.13	163.36	5.30	25.50	0.19	-19.88
Last 5	15:21:09	12300.27	22.20	6.13	163.19	4.91	25.50	0.20	-17.24
Last 5	15:26:09	12600.27	22.31	6.13	163.25	4.50	25.50	0.21	-17.85
Last 5	15:31:09	12900.26	21.85	6.14	161.47	4.83	25.50	0.20	-15.38
Variance 0			-0.12	0.00	-0.17			0.01	2.64
Variance 1			0.11	0.00	0.06			0.01	-0.61
Variance 2			-0.45	0.00	-1.78			-0.01	2.47

Notes

Partly sunny, 75F.
Rate change at beginning from 0.15L to 0.1L. Sampling started at 1534.

Grab Samples

SGWA-25
Ash Pond, up-gradient R4



APPENDIX A

ANALYTICAL RESULTS & FIELD DATA FORMS (JUNE 2016)



PACE ANALYTICAL SERVICES, INC.

Environmental Monitoring & Laboratory Analysis
110 Technology Parkway, Peachtree Corners, GA 30092
(770) 734-4200 FAX (770) 734-4201

Laboratory Report

Prepared For:

**Georgia Power
2480 Maner Road
Atlanta, GA 30339**

Attention: Mr. Joju Abraham

Report Number: AZF0947

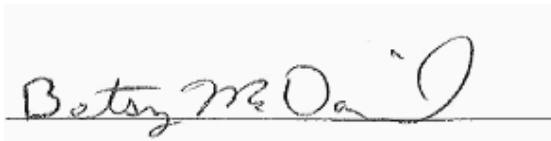
July 01, 2016

Project: CCR Event

Project #: Plant Scherer

We appreciate the opportunity to provide the analytical support for your project. The analytical results in this report are based upon information supplied by you, the client, and are for your exclusive use. If you have any questions regarding this data package, please do not hesitate to call.

Approved:



Project Manager

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All test results relate only to the samples analyzed.



PACE ANALYTICAL SERVICES, INC.

Environmental Monitoring & Laboratory Analysis
110 Technology Parkway, Peachtree Corners, GA 30092
(770) 734-4200 FAX (770) 734-4201

Georgia Power
2480 Maner Road
Atlanta GA, 30339

Attention: Mr. Joju Abraham

July 01, 2016

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
SGWA-24	AZF0947-01	Ground Water	06/23/16 09:25	06/24/16 15:25
SGWA-5	AZF0947-02	Ground Water	06/23/16 14:00	06/24/16 15:25
Dup-5	AZF0947-03	Ground Water	06/23/16 00:00	06/24/16 15:25
SGWA-1	AZF0947-04	Ground Water	06/23/16 10:24	06/24/16 15:25
SGWA-2	AZF0947-05	Ground Water	06/23/16 15:05	06/24/16 15:25
EQB-4	AZF0947-06	DI Water	06/23/16 14:50	06/24/16 15:25
FB-4	AZF0947-07	DI Water	06/23/16 14:55	06/24/16 15:25



PACE ANALYTICAL SERVICES, INC.

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Georgia Power
 2480 Maner Road
 Atlanta GA, 30339

Attention: Mr. Joju Abraham

July 01, 2016

Report No.: AZF0947

Project: CCR Event

Client ID: SGWA-24

Lab Number ID: AZF0947-01

Date/Time Sampled: 6/23/2016 9:25:00AM

Date/Time Received: 6/24/2016 3:25:00PM

Matrix: Ground Water

Analyte	Result	RL	MDL	Units	Method	Qual.	DF	Preparation Date	Analytical Date	Batch	Init.
General Chemistry											
Total Dissolved Solids	118	25	10	mg/L	SM 2540 C		1	06/28/16 15:35	06/28/16 15:35	6060693	JPT
Inorganic Anions											
Chloride	2.2	0.25	0.01	mg/L	EPA 300.0	B-01	1	06/28/16 12:50	06/29/16 04:14	6060698	RLC
Fluoride	0.05	0.30	0.02	mg/L	EPA 300.0	J	1	06/28/16 12:50	06/29/16 04:14	6060698	RLC
Sulfate	0.30	1.0	0.05	mg/L	EPA 300.0	J	1	06/28/16 12:50	06/29/16 04:14	6060698	RLC
Metals, Total											
Antimony	0.0003	0.0030	0.0002	mg/L	EPA 6020B	B-01, J	1	06/28/16 08:40	06/29/16 19:02	6060682	CSW
Arsenic	ND	0.0050	0.0007	mg/L	EPA 6020B		1	06/28/16 08:40	06/29/16 19:02	6060682	CSW
Barium	0.0204	0.0100	0.0003	mg/L	EPA 6020B		1	06/28/16 08:40	06/29/16 19:02	6060682	CSW
Beryllium	ND	0.0030	0.00009	mg/L	EPA 6020B		1	06/28/16 08:40	06/29/16 19:02	6060682	CSW
Boron	ND	0.100	0.0044	mg/L	EPA 6020B		1	06/28/16 08:40	06/29/16 19:02	6060682	CSW
Cadmium	ND	0.0010	0.0001	mg/L	EPA 6020B		1	06/28/16 08:40	06/29/16 19:02	6060682	CSW
Calcium	11.3	2.50	0.0628	mg/L	EPA 6020B		5	06/28/16 08:40	06/30/16 13:16	6060682	CSW
Chromium	0.0027	0.0100	0.0004	mg/L	EPA 6020B	J	1	06/28/16 08:40	06/29/16 19:02	6060682	CSW
Cobalt	0.0004	0.0100	0.0003	mg/L	EPA 6020B	J	1	06/28/16 08:40	06/29/16 19:02	6060682	CSW
Lead	0.0001	0.0050	0.00008	mg/L	EPA 6020B	J	1	06/28/16 08:40	06/29/16 19:02	6060682	CSW
Molybdenum	ND	0.0100	0.0005	mg/L	EPA 6020B		1	06/28/16 08:40	06/29/16 19:02	6060682	CSW
Selenium	ND	0.0100	0.0009	mg/L	EPA 6020B		1	06/28/16 08:40	06/29/16 19:02	6060682	CSW
Thallium	ND	0.0010	0.00006	mg/L	EPA 6020B		1	06/28/16 08:40	06/29/16 19:02	6060682	CSW
Lithium	ND	0.0500	0.0012	mg/L	EPA 6020B		1	06/28/16 08:40	06/29/16 19:02	6060682	CSW
Mercury	ND	0.00050	0.00013	mg/L	EPA 7470A		1	06/28/16 09:40	06/29/16 16:01	6060684	CSW



PACE ANALYTICAL SERVICES, INC.

Environmental Monitoring & Laboratory Analysis
 110 Technology Parkway, Peachtree Corners, GA 30092
 (770) 734-4200 FAX (770) 734-4201

Georgia Power
 2480 Maner Road
 Atlanta GA, 30339

Attention: Mr. Joju Abraham

July 01, 2016

Report No.: AZF0947

Project: CCR Event

Client ID: SGWA-5

Lab Number ID: AZF0947-02

Date/Time Sampled: 6/23/2016 2:00:00PM

Date/Time Received: 6/24/2016 3:25:00PM

Matrix: Ground Water

Analyte	Result	RL	MDL	Units	Method	Qual.	DF	Preparation Date	Analytical Date	Batch	Init.
General Chemistry											
Total Dissolved Solids	58	25	10	mg/L	SM 2540 C		1	06/28/16 15:35	06/28/16 15:35	6060693	JPT
Inorganic Anions											
Chloride	2.1	0.25	0.01	mg/L	EPA 300.0	B-01	1	06/28/16 12:50	06/29/16 04:35	6060698	RLC
Fluoride	ND	0.30	0.02	mg/L	EPA 300.0		1	06/28/16 12:50	06/29/16 04:35	6060698	RLC
Sulfate	0.46	1.0	0.05	mg/L	EPA 300.0	J	1	06/28/16 12:50	06/29/16 04:35	6060698	RLC
Metals, Total											
Antimony	ND	0.0030	0.0002	mg/L	EPA 6020B		1	06/28/16 08:40	06/29/16 19:07	6060682	CSW
Arsenic	ND	0.0050	0.0007	mg/L	EPA 6020B		1	06/28/16 08:40	06/29/16 19:07	6060682	CSW
Barium	0.0101	0.0100	0.0003	mg/L	EPA 6020B		1	06/28/16 08:40	06/29/16 19:07	6060682	CSW
Beryllium	ND	0.0030	0.00009	mg/L	EPA 6020B		1	06/28/16 08:40	06/29/16 19:07	6060682	CSW
Boron	ND	0.100	0.0044	mg/L	EPA 6020B		1	06/28/16 08:40	06/29/16 19:07	6060682	CSW
Cadmium	ND	0.0010	0.0001	mg/L	EPA 6020B		1	06/28/16 08:40	06/29/16 19:07	6060682	CSW
Calcium	1.65	0.500	0.0126	mg/L	EPA 6020B		1	06/28/16 08:40	06/29/16 19:07	6060682	CSW
Chromium	ND	0.0100	0.0004	mg/L	EPA 6020B		1	06/28/16 08:40	06/29/16 19:07	6060682	CSW
Cobalt	ND	0.0100	0.0003	mg/L	EPA 6020B		1	06/28/16 08:40	06/29/16 19:07	6060682	CSW
Lead	ND	0.0050	0.00008	mg/L	EPA 6020B		1	06/28/16 08:40	06/29/16 19:07	6060682	CSW
Molybdenum	ND	0.0100	0.0005	mg/L	EPA 6020B		1	06/28/16 08:40	06/29/16 19:07	6060682	CSW
Selenium	ND	0.0100	0.0009	mg/L	EPA 6020B		1	06/28/16 08:40	06/29/16 19:07	6060682	CSW
Thallium	ND	0.0010	0.00006	mg/L	EPA 6020B		1	06/28/16 08:40	06/29/16 19:07	6060682	CSW
Lithium	ND	0.0500	0.0012	mg/L	EPA 6020B		1	06/28/16 08:40	06/29/16 19:07	6060682	CSW
Mercury	ND	0.00050	0.00013	mg/L	EPA 7470A		1	06/28/16 09:40	06/29/16 16:04	6060684	CSW



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 Atlanta GA, 30339

Attention: Mr. Joju Abraham

July 01, 2016

Report No.: AZF0947

Project: CCR Event

Client ID: Dup-5

Lab Number ID: AZF0947-03

Date/Time Sampled: 6/23/2016 12:00:00AM

Date/Time Received: 6/24/2016 3:25:00PM

Matrix: Ground Water

Analyte	Result	RL	MDL	Units	Method	Qual.	DF	Preparation Date	Analytical Date	Batch	Init.
General Chemistry											
Total Dissolved Solids	102	25	10	mg/L	SM 2540 C		1	06/28/16 15:35	06/28/16 15:35	6060693	JPT
Inorganic Anions											
Chloride	2.2	0.25	0.01	mg/L	EPA 300.0	B-01	1	06/28/16 12:50	06/29/16 05:39	6060698	RLC
Fluoride	0.06	0.30	0.02	mg/L	EPA 300.0	J	1	06/28/16 12:50	06/29/16 05:39	6060698	RLC
Sulfate	0.31	1.0	0.05	mg/L	EPA 300.0	J	1	06/28/16 12:50	06/29/16 05:39	6060698	RLC
Metals, Total											
Antimony	ND	0.0030	0.0002	mg/L	EPA 6020B		1	06/28/16 08:40	06/29/16 19:12	6060682	CSW
Arsenic	ND	0.0050	0.0007	mg/L	EPA 6020B		1	06/28/16 08:40	06/29/16 19:12	6060682	CSW
Barium	0.0203	0.0100	0.0003	mg/L	EPA 6020B		1	06/28/16 08:40	06/29/16 19:12	6060682	CSW
Beryllium	ND	0.0030	0.00009	mg/L	EPA 6020B		1	06/28/16 08:40	06/29/16 19:12	6060682	CSW
Boron	ND	0.100	0.0044	mg/L	EPA 6020B		1	06/28/16 08:40	06/29/16 19:12	6060682	CSW
Cadmium	ND	0.0010	0.0001	mg/L	EPA 6020B		1	06/28/16 08:40	06/29/16 19:12	6060682	CSW
Calcium	11.0	2.50	0.0628	mg/L	EPA 6020B		5	06/28/16 08:40	06/30/16 13:21	6060682	CSW
Chromium	0.0023	0.0100	0.0004	mg/L	EPA 6020B	J	1	06/28/16 08:40	06/29/16 19:12	6060682	CSW
Cobalt	0.0003	0.0100	0.0003	mg/L	EPA 6020B	J	1	06/28/16 08:40	06/29/16 19:12	6060682	CSW
Lead	0.0001	0.0050	0.00008	mg/L	EPA 6020B	J	1	06/28/16 08:40	06/29/16 19:12	6060682	CSW
Molybdenum	ND	0.0100	0.0005	mg/L	EPA 6020B		1	06/28/16 08:40	06/29/16 19:12	6060682	CSW
Selenium	ND	0.0100	0.0009	mg/L	EPA 6020B		1	06/28/16 08:40	06/29/16 19:12	6060682	CSW
Thallium	ND	0.0010	0.00006	mg/L	EPA 6020B		1	06/28/16 08:40	06/29/16 19:12	6060682	CSW
Lithium	ND	0.0500	0.0012	mg/L	EPA 6020B		1	06/28/16 08:40	06/29/16 19:12	6060682	CSW
Mercury	ND	0.00050	0.00013	mg/L	EPA 7470A		1	06/28/16 09:40	06/29/16 16:06	6060684	CSW



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Georgia Power
 2480 Maner Road
 Atlanta GA, 30339

Attention: Mr. Joju Abraham

July 01, 2016

Report No.: AZF0947

Project: CCR Event

Client ID: SGWA-1

Lab Number ID: AZF0947-04

Date/Time Sampled: 6/23/2016 10:24:00AM

Date/Time Received: 6/24/2016 3:25:00PM

Matrix: Ground Water

Analyte	Result	RL	MDL	Units	Method	Qual.	DF	Preparation Date	Analytical Date	Batch	Init.
General Chemistry											
Total Dissolved Solids	38	25	10	mg/L	SM 2540 C		1	06/28/16 15:35	06/28/16 15:35	6060693	JPT
Inorganic Anions											
Chloride	2.2	0.25	0.01	mg/L	EPA 300.0	B-01	1	06/28/16 12:50	06/29/16 06:00	6060698	RLC
Fluoride	ND	0.30	0.02	mg/L	EPA 300.0		1	06/28/16 12:50	06/29/16 06:00	6060698	RLC
Sulfate	0.94	1.0	0.05	mg/L	EPA 300.0	J	1	06/28/16 12:50	06/29/16 06:00	6060698	RLC
Metals, Total											
Antimony	0.0004	0.0030	0.0002	mg/L	EPA 6020B	B-01, J	1	06/28/16 08:40	06/29/16 19:17	6060682	CSW
Arsenic	ND	0.0050	0.0007	mg/L	EPA 6020B		1	06/28/16 08:40	06/29/16 19:17	6060682	CSW
Barium	0.0550	0.0100	0.0003	mg/L	EPA 6020B		1	06/28/16 08:40	06/29/16 19:17	6060682	CSW
Beryllium	0.0002	0.0030	0.00009	mg/L	EPA 6020B	J	1	06/28/16 08:40	06/29/16 19:17	6060682	CSW
Boron	ND	0.100	0.0044	mg/L	EPA 6020B		1	06/28/16 08:40	06/29/16 19:17	6060682	CSW
Cadmium	ND	0.0010	0.0001	mg/L	EPA 6020B		1	06/28/16 08:40	06/29/16 19:17	6060682	CSW
Calcium	2.42	0.500	0.0126	mg/L	EPA 6020B		1	06/28/16 08:40	06/29/16 19:17	6060682	CSW
Chromium	ND	0.0100	0.0004	mg/L	EPA 6020B		1	06/28/16 08:40	06/29/16 19:17	6060682	CSW
Cobalt	0.0168	0.0100	0.0003	mg/L	EPA 6020B		1	06/28/16 08:40	06/29/16 19:17	6060682	CSW
Lead	ND	0.0050	0.00008	mg/L	EPA 6020B		1	06/28/16 08:40	06/29/16 19:17	6060682	CSW
Molybdenum	ND	0.0100	0.0005	mg/L	EPA 6020B		1	06/28/16 08:40	06/29/16 19:17	6060682	CSW
Selenium	ND	0.0100	0.0009	mg/L	EPA 6020B		1	06/28/16 08:40	06/29/16 19:17	6060682	CSW
Thallium	0.00008	0.0010	0.00006	mg/L	EPA 6020B	J	1	06/28/16 08:40	06/29/16 19:17	6060682	CSW
Lithium	0.0013	0.0500	0.0012	mg/L	EPA 6020B	J	1	06/28/16 08:40	06/29/16 19:17	6060682	CSW
Mercury	ND	0.00050	0.00013	mg/L	EPA 7470A		1	06/28/16 09:40	06/29/16 16:08	6060684	CSW



PACE ANALYTICAL SERVICES, INC.

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 (770) 734-4200 FAX (770) 734-4201

Georgia Power
 2480 Maner Road
 Atlanta GA, 30339

Attention: Mr. Joju Abraham

July 01, 2016

Report No.: AZF0947

Project: CCR Event

Client ID: SGWA-2

Lab Number ID: AZF0947-05

Date/Time Sampled: 6/23/2016 3:05:00PM

Date/Time Received: 6/24/2016 3:25:00PM

Matrix: Ground Water

Analyte	Result	RL	MDL	Units	Method	Qual.	DF	Preparation Date	Analytical Date	Batch	Init.
General Chemistry											
Total Dissolved Solids	91	25	10	mg/L	SM 2540 C		1	06/28/16 15:35	06/28/16 15:35	6060693	JPT
Inorganic Anions											
Chloride	1.8	0.25	0.01	mg/L	EPA 300.0	B-01	1	06/28/16 12:50	06/29/16 06:21	6060698	RLC
Fluoride	0.03	0.30	0.02	mg/L	EPA 300.0	J	1	06/28/16 12:50	06/29/16 06:21	6060698	RLC
Sulfate	0.55	1.0	0.05	mg/L	EPA 300.0	J	1	06/28/16 12:50	06/29/16 06:21	6060698	RLC
Metals, Total											
Antimony	ND	0.0030	0.0002	mg/L	EPA 6020B	B-01	1	06/28/16 08:40	06/29/16 19:22	6060682	CSW
Arsenic	ND	0.0050	0.0007	mg/L	EPA 6020B		1	06/28/16 08:40	06/29/16 19:22	6060682	CSW
Barium	0.0342	0.0100	0.0003	mg/L	EPA 6020B		1	06/28/16 08:40	06/29/16 19:22	6060682	CSW
Beryllium	ND	0.0030	0.00009	mg/L	EPA 6020B		1	06/28/16 08:40	06/29/16 19:22	6060682	CSW
Boron	ND	0.100	0.0044	mg/L	EPA 6020B		1	06/28/16 08:40	06/29/16 19:22	6060682	CSW
Cadmium	ND	0.0010	0.0001	mg/L	EPA 6020B		1	06/28/16 08:40	06/29/16 19:22	6060682	CSW
Calcium	8.45	0.500	0.0126	mg/L	EPA 6020B		1	06/28/16 08:40	06/29/16 19:22	6060682	CSW
Chromium	0.0118	0.0100	0.0004	mg/L	EPA 6020B		1	06/28/16 08:40	06/29/16 19:22	6060682	CSW
Cobalt	0.0004	0.0100	0.0003	mg/L	EPA 6020B	J	1	06/28/16 08:40	06/29/16 19:22	6060682	CSW
Lead	ND	0.0050	0.00008	mg/L	EPA 6020B		1	06/28/16 08:40	06/29/16 19:22	6060682	CSW
Molybdenum	ND	0.0100	0.0005	mg/L	EPA 6020B		1	06/28/16 08:40	06/29/16 19:22	6060682	CSW
Selenium	ND	0.0100	0.0009	mg/L	EPA 6020B		1	06/28/16 08:40	06/29/16 19:22	6060682	CSW
Thallium	ND	0.0010	0.00006	mg/L	EPA 6020B		1	06/28/16 08:40	06/29/16 19:22	6060682	CSW
Lithium	ND	0.0500	0.0012	mg/L	EPA 6020B		1	06/28/16 08:40	06/29/16 19:22	6060682	CSW
Mercury	ND	0.00050	0.00013	mg/L	EPA 7470A		1	06/28/16 09:40	06/29/16 16:11	6060684	CSW



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Environmental Monitoring & Laboratory Analysis
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Georgia Power
 2480 Maner Road
 Atlanta GA, 30339

Attention: Mr. Joju Abraham

July 01, 2016

Report No.: AZF0947

Project: CCR Event

Client ID: EQB-4

Lab Number ID: AZF0947-06

Date/Time Sampled: 6/23/2016 2:50:00PM

Date/Time Received: 6/24/2016 3:25:00PM

Matrix: DI Water

Analyte	Result	RL	MDL	Units	Method	Qual.	DF	Preparation Date	Analytical Date	Batch	Init.
General Chemistry											
Total Dissolved Solids	ND	25	10	mg/L	SM 2540 C		1	06/28/16 15:35	06/28/16 15:35	6060693	JPT
Inorganic Anions											
Chloride	0.02	0.25	0.01	mg/L	EPA 300.0	B-01, J	1	06/28/16 12:50	06/29/16 06:42	6060698	RLC
Fluoride	ND	0.30	0.02	mg/L	EPA 300.0		1	06/28/16 12:50	06/29/16 06:42	6060698	RLC
Sulfate	0.08	1.0	0.05	mg/L	EPA 300.0	J	1	06/28/16 12:50	06/29/16 06:42	6060698	RLC
Metals, Total											
Antimony	ND	0.0030	0.0002	mg/L	EPA 6020B		1	06/28/16 08:40	06/29/16 19:27	6060682	CSW
Arsenic	ND	0.0050	0.0007	mg/L	EPA 6020B		1	06/28/16 08:40	06/29/16 19:27	6060682	CSW
Barium	ND	0.0100	0.0003	mg/L	EPA 6020B		1	06/28/16 08:40	06/29/16 19:27	6060682	CSW
Beryllium	ND	0.0030	0.00009	mg/L	EPA 6020B		1	06/28/16 08:40	06/29/16 19:27	6060682	CSW
Boron	ND	0.100	0.0044	mg/L	EPA 6020B		1	06/28/16 08:40	06/29/16 19:27	6060682	CSW
Cadmium	ND	0.0010	0.0001	mg/L	EPA 6020B		1	06/28/16 08:40	06/29/16 19:27	6060682	CSW
Calcium	ND	0.500	0.0126	mg/L	EPA 6020B		1	06/28/16 08:40	06/29/16 19:27	6060682	CSW
Chromium	ND	0.0100	0.0004	mg/L	EPA 6020B		1	06/28/16 08:40	06/29/16 19:27	6060682	CSW
Cobalt	ND	0.0100	0.0003	mg/L	EPA 6020B		1	06/28/16 08:40	06/29/16 19:27	6060682	CSW
Lead	ND	0.0050	0.00008	mg/L	EPA 6020B		1	06/28/16 08:40	06/29/16 19:27	6060682	CSW
Molybdenum	ND	0.0100	0.0005	mg/L	EPA 6020B		1	06/28/16 08:40	06/29/16 19:27	6060682	CSW
Selenium	ND	0.0100	0.0009	mg/L	EPA 6020B		1	06/28/16 08:40	06/29/16 19:27	6060682	CSW
Thallium	ND	0.0010	0.00006	mg/L	EPA 6020B		1	06/28/16 08:40	06/29/16 19:27	6060682	CSW
Lithium	ND	0.0500	0.0012	mg/L	EPA 6020B		1	06/28/16 08:40	06/29/16 19:27	6060682	CSW
Mercury	ND	0.00050	0.00013	mg/L	EPA 7470A		1	06/28/16 09:40	06/29/16 16:13	6060684	CSW



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Georgia Power
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 Atlanta GA, 30339

Attention: Mr. Joju Abraham

July 01, 2016

Report No.: AZF0947

Project: CCR Event

Client ID: FB-4

Lab Number ID: AZF0947-07

Date/Time Sampled: 6/23/2016 2:55:00PM

Date/Time Received: 6/24/2016 3:25:00PM

Matrix: DI Water

Analyte	Result	RL	MDL	Units	Method	Qual.	DF	Preparation Date	Analytical Date	Batch	Init.
General Chemistry											
Total Dissolved Solids	ND	25	10	mg/L	SM 2540 C		1	06/28/16 15:35	06/28/16 15:35	6060693	JPT
Inorganic Anions											
Chloride	0.04	0.25	0.01	mg/L	EPA 300.0	B-01, J	1	06/28/16 12:50	06/29/16 07:03	6060698	RLC
Fluoride	ND	0.30	0.02	mg/L	EPA 300.0		1	06/28/16 12:50	06/29/16 07:03	6060698	RLC
Sulfate	0.07	1.0	0.05	mg/L	EPA 300.0	J	1	06/28/16 12:50	06/29/16 07:03	6060698	RLC
Metals, Total											
Antimony	ND	0.0030	0.0002	mg/L	EPA 6020B		1	06/28/16 08:40	06/29/16 19:32	6060682	CSW
Arsenic	ND	0.0050	0.0007	mg/L	EPA 6020B		1	06/28/16 08:40	06/29/16 19:32	6060682	CSW
Barium	ND	0.0100	0.0003	mg/L	EPA 6020B		1	06/28/16 08:40	06/29/16 19:32	6060682	CSW
Beryllium	ND	0.0030	0.00009	mg/L	EPA 6020B		1	06/28/16 08:40	06/29/16 19:32	6060682	CSW
Boron	ND	0.100	0.0044	mg/L	EPA 6020B		1	06/28/16 08:40	06/29/16 19:32	6060682	CSW
Cadmium	ND	0.0010	0.0001	mg/L	EPA 6020B		1	06/28/16 08:40	06/29/16 19:32	6060682	CSW
Calcium	ND	0.500	0.0126	mg/L	EPA 6020B		1	06/28/16 08:40	06/29/16 19:32	6060682	CSW
Chromium	ND	0.0100	0.0004	mg/L	EPA 6020B		1	06/28/16 08:40	06/29/16 19:32	6060682	CSW
Cobalt	ND	0.0100	0.0003	mg/L	EPA 6020B		1	06/28/16 08:40	06/29/16 19:32	6060682	CSW
Lead	ND	0.0050	0.00008	mg/L	EPA 6020B		1	06/28/16 08:40	06/29/16 19:32	6060682	CSW
Molybdenum	ND	0.0100	0.0005	mg/L	EPA 6020B		1	06/28/16 08:40	06/29/16 19:32	6060682	CSW
Selenium	ND	0.0100	0.0009	mg/L	EPA 6020B		1	06/28/16 08:40	06/29/16 19:32	6060682	CSW
Thallium	ND	0.0010	0.00006	mg/L	EPA 6020B		1	06/28/16 08:40	06/29/16 19:32	6060682	CSW
Lithium	ND	0.0500	0.0012	mg/L	EPA 6020B		1	06/28/16 08:40	06/29/16 19:32	6060682	CSW
Mercury	ND	0.00050	0.00013	mg/L	EPA 7470A		1	06/28/16 09:40	06/29/16 16:15	6060684	CSW



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General Chemistry - Quality Control

Analyte	Result	RL	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 6060693 - SM 2540 C											
Blank (6060693-BLK1)						Prepared & Analyzed: 06/28/16					
Total Dissolved Solids	ND	25	10	mg/L							
LCS (6060693-BS1)						Prepared & Analyzed: 06/28/16					
Total Dissolved Solids	396	25	10	mg/L	400.00		99	84-108			
Duplicate (6060693-DUP1)						Prepared & Analyzed: 06/28/16					
						Source: AZF0947-01					
Total Dissolved Solids	105	25	10	mg/L		118			12	10	QR-03



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Report No.: AZF0947

Inorganic Anions - Quality Control

Analyte	Result	RL	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 6060698 - EPA 300.0											
Blank (6060698-BLK1)						Prepared: 06/28/16 Analyzed: 06/29/16					
Chloride	0.04	0.25	0.01	mg/L							J
Fluoride	ND	0.30	0.02	mg/L							
Sulfate	ND	1.0	0.05	mg/L							
LCS (6060698-BS1)						Prepared: 06/28/16 Analyzed: 06/29/16					
Chloride	9.68	0.25	0.01	mg/L	10.010		97	90-110			
Fluoride	10.2	0.30	0.02	mg/L	10.010		102	90-110			
Sulfate	9.90	1.0	0.05	mg/L	10.010		99	90-110			
Matrix Spike (6060698-MS1)						Source: AZF0947-02 Prepared: 06/28/16 Analyzed: 06/29/16					
Chloride	11.7	0.25	0.01	mg/L	10.010	2.10	96	90-110			
Fluoride	10.6	0.30	0.02	mg/L	10.010	ND	106	90-110			
Sulfate	10.3	1.0	0.05	mg/L	10.010	0.46	98	90-110			
Matrix Spike Dup (6060698-MSD1)						Source: AZF0947-02 Prepared: 06/28/16 Analyzed: 06/29/16					
Chloride	11.7	0.25	0.01	mg/L	10.010	2.10	96	90-110	0.03	15	
Fluoride	10.6	0.30	0.02	mg/L	10.010	ND	106	90-110	0.1	15	
Sulfate	10.3	1.0	0.05	mg/L	10.010	0.46	98	90-110	0.06	15	



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Metals, Total - Quality Control

Analyte	Result	RL	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 6060682 - EPA 3005A											
Blank (6060682-BLK1)						Prepared & Analyzed: 06/28/16					
Antimony	0.0006	0.0030	0.0002	mg/L							J
Arsenic	ND	0.0050	0.0007	mg/L							
Barium	ND	0.0100	0.0003	mg/L							
Beryllium	ND	0.0030	0.00009	mg/L							
Boron	ND	0.100	0.0044	mg/L							
Cadmium	ND	0.0010	0.0001	mg/L							
Calcium	ND	0.500	0.0126	mg/L							
Chromium	ND	0.0100	0.0004	mg/L							
Cobalt	ND	0.0100	0.0003	mg/L							
Copper	ND	0.0250	0.0004	mg/L							
Lead	ND	0.0050	0.00008	mg/L							
Molybdenum	ND	0.0100	0.0005	mg/L							
Nickel	ND	0.0100	0.0005	mg/L							
Selenium	ND	0.0100	0.0009	mg/L							
Silver	ND	0.0100	0.0002	mg/L							
Thallium	ND	0.0010	0.00006	mg/L							
Vanadium	ND	0.0100	0.0016	mg/L							
Zinc	ND	0.0100	0.0013	mg/L							
Lithium	ND	0.0500	0.0012	mg/L							
LCS (6060682-BS1)						Prepared & Analyzed: 06/28/16					
Antimony	0.104	0.0030	0.0002	mg/L	0.10000		104	80-120			
Arsenic	0.0974	0.0050	0.0007	mg/L	0.10000		97	80-120			
Barium	0.0974	0.0100	0.0003	mg/L	0.10000		97	80-120			
Beryllium	0.104	0.0030	0.00009	mg/L	0.10000		104	80-120			
Boron	1.01	0.100	0.0044	mg/L	1.0000		101	80-120			
Cadmium	0.0987	0.0010	0.0001	mg/L	0.10000		99	80-120			
Calcium	0.988	0.500	0.0126	mg/L	1.0000		99	80-120			
Chromium	0.105	0.0100	0.0004	mg/L	0.10000		105	80-120			
Cobalt	0.0971	0.0100	0.0003	mg/L	0.10000		97	80-120			
Copper	0.0984	0.0250	0.0004	mg/L	0.10000		98	80-120			
Lead	0.0933	0.0050	0.00008	mg/L	0.10000		93	80-120			
Molybdenum	0.103	0.0100	0.0005	mg/L	0.10000		103	80-120			
Nickel	0.0963	0.0100	0.0005	mg/L	0.10000		96	80-120			
Selenium	0.0963	0.0100	0.0009	mg/L	0.10000		96	80-120			
Silver	0.102	0.0100	0.0002	mg/L	0.10000		102	80-120			
Thallium	0.0941	0.0010	0.00006	mg/L	0.10000		94	80-120			
Vanadium	0.100	0.0100	0.0016	mg/L	0.10000		100	80-120			
Zinc	0.101	0.0100	0.0013	mg/L	0.10000		101	80-120			
Lithium	0.0934	0.0500	0.0012	mg/L	0.10000		93	80-120			



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July 01, 2016

Report No.: AZF0947

Metals, Total - Quality Control

Analyte	Result	RL	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 6060682 - EPA 3005A											
Matrix Spike (6060682-MS1)			Source: AZF0948-07			Prepared & Analyzed: 06/28/16					
Antimony	0.108	0.0030	0.0002	mg/L	0.10000	0.0014	107	75-125			
Arsenic	0.102	0.0050	0.0007	mg/L	0.10000	ND	102	75-125			
Barium	0.712	0.0500	0.0015	mg/L	0.10000	0.491	221	75-125			QM-02
Beryllium	0.105	0.0030	0.00009	mg/L	0.10000	0.0004	105	75-125			
Boron	1.01	0.100	0.0044	mg/L	1.0000	0.0172	99	75-125			
Cadmium	0.100	0.0010	0.0001	mg/L	0.10000	ND	100	75-125			
Calcium	8.52	0.500	0.0126	mg/L	1.0000	7.41	111	75-125			
Chromium	0.105	0.0100	0.0004	mg/L	0.10000	ND	105	75-125			
Cobalt	0.109	0.0100	0.0003	mg/L	0.10000	0.0073	102	75-125			
Copper	0.0980	0.0250	0.0004	mg/L	0.10000	0.0007	97	75-125			
Lead	0.0924	0.0050	0.00008	mg/L	0.10000	0.0001	92	75-125			
Molybdenum	0.106	0.0100	0.0005	mg/L	0.10000	0.0029	103	75-125			
Nickel	0.106	0.0100	0.0005	mg/L	0.10000	0.0062	100	75-125			
Selenium	0.107	0.0100	0.0009	mg/L	0.10000	0.0042	102	75-125			
Silver	0.103	0.0100	0.0002	mg/L	0.10000	ND	103	75-125			
Thallium	0.0945	0.0010	0.00006	mg/L	0.10000	0.0006	94	75-125			
Vanadium	0.106	0.0100	0.0016	mg/L	0.10000	0.0021	104	75-125			
Zinc	0.110	0.0100	0.0013	mg/L	0.10000	0.0116	99	75-125			
Lithium	0.0926	0.0500	0.0012	mg/L	0.10000	0.0032	89	75-125			
Matrix Spike Dup (6060682-MSD1)			Source: AZF0948-07			Prepared & Analyzed: 06/28/16					
Antimony	0.104	0.0030	0.0002	mg/L	0.10000	0.0014	103	75-125	4	20	
Arsenic	0.0988	0.0050	0.0007	mg/L	0.10000	ND	99	75-125	3	20	
Barium	0.659	0.0500	0.0015	mg/L	0.10000	0.491	168	75-125	8	20	QM-02
Beryllium	0.100	0.0030	0.00009	mg/L	0.10000	0.0004	100	75-125	5	20	
Boron	0.966	0.100	0.0044	mg/L	1.0000	0.0172	95	75-125	4	20	
Cadmium	0.0975	0.0010	0.0001	mg/L	0.10000	ND	98	75-125	3	20	
Calcium	8.32	0.500	0.0126	mg/L	1.0000	7.41	91	75-125	2	20	
Chromium	0.102	0.0100	0.0004	mg/L	0.10000	ND	102	75-125	3	20	
Cobalt	0.106	0.0100	0.0003	mg/L	0.10000	0.0073	98	75-125	3	20	
Copper	0.0996	0.0250	0.0004	mg/L	0.10000	0.0007	99	75-125	2	20	
Lead	0.0919	0.0050	0.00008	mg/L	0.10000	0.0001	92	75-125	0.5	20	
Molybdenum	0.105	0.0100	0.0005	mg/L	0.10000	0.0029	102	75-125	2	20	
Nickel	0.104	0.0100	0.0005	mg/L	0.10000	0.0062	97	75-125	2	20	
Selenium	0.0996	0.0100	0.0009	mg/L	0.10000	0.0042	95	75-125	7	20	
Silver	0.102	0.0100	0.0002	mg/L	0.10000	ND	102	75-125	1	20	
Thallium	0.0932	0.0010	0.00006	mg/L	0.10000	0.0006	93	75-125	1	20	
Vanadium	0.107	0.0100	0.0016	mg/L	0.10000	0.0021	104	75-125	0.7	20	
Zinc	0.110	0.0100	0.0013	mg/L	0.10000	0.0116	98	75-125	0.7	20	
Lithium	0.0953	0.0500	0.0012	mg/L	0.10000	0.0032	92	75-125	3	20	



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Attention: Mr. Joju Abraham

July 01, 2016

Report No.: AZF0947

Metals, Total - Quality Control

Analyte	Result	RL	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 6060682 - EPA 3005A											
Post Spike (6060682-PS1)				Source: AZF0948-07			Prepared & Analyzed: 06/28/16				
Antimony	93.0			ug/L	100.00	1.36	92	80-120			
Arsenic	94.6			ug/L	100.00	0.392	94	80-120			
Barium	691			ug/L	100.00	491	200	80-120			QM-02
Beryllium	97.0			ug/L	100.00	0.407	97	80-120			
Boron	957			ug/L	1000.0	17.2	94	80-120			
Cadmium	95.7			ug/L	100.00	0.0637	96	80-120			
Calcium	8450			ug/L	1000.0	7410	104	80-120			
Chromium	103			ug/L	100.00	0.172	103	80-120			
Cobalt	108			ug/L	100.00	7.30	100	80-120			
Copper	98.2			ug/L	100.00	0.702	97	80-120			
Lead	91.3			ug/L	100.00	0.110	91	80-120			
Molybdenum	103			ug/L	100.00	2.94	100	80-120			
Nickel	104			ug/L	100.00	6.18	98	80-120			
Selenium	99.3			ug/L	100.00	4.23	95	80-120			
Silver	97.7			ug/L	100.00	0.0354	98	80-120			
Thallium	92.4			ug/L	100.00	0.561	92	80-120			
Vanadium	108			ug/L	100.00	2.15	106	80-120			
Zinc	111			ug/L	100.00	11.6	100	80-120			
Lithium	93.4			ug/L	100.00	3.20	90	80-120			

Batch 6060684 - EPA 7470A

Blank (6060684-BLK1)				Prepared: 06/28/16 Analyzed: 06/29/16							
Mercury	ND	0.00050	0.00013	mg/L							
LCS (6060684-BS1)				Prepared: 06/28/16 Analyzed: 06/29/16							
Mercury	0.00233	0.00050	0.00013	mg/L	2.5000E-3		93	80-120			



PACE ANALYTICAL SERVICES, INC.

Environmental Monitoring & Laboratory Analysis
 110 Technology Parkway, Peachtree Corners, GA 30092
 (770) 734-4200 FAX (770) 734-4201

Georgia Power
 2480 Maner Road
 Atlanta GA, 30339

Attention: Mr. Joju Abraham

July 01, 2016

Report No.: AZF0947

Metals, Total - Quality Control

Analyte	Result	RL	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 6060684 - EPA 7470A											
Matrix Spike (6060684-MS1)			Source: AZF0947-01			Prepared: 06/28/16 Analyzed: 06/29/16					
Mercury	0.00244	0.00050	0.00013	mg/L	2.5000E-3	ND	98	75-125			
Matrix Spike Dup (6060684-MSD1)			Source: AZF0947-01			Prepared: 06/28/16 Analyzed: 06/29/16					
Mercury	0.00226	0.00050	0.00013	mg/L	2.5000E-3	ND	90	75-125	8	20	
Post Spike (6060684-PS1)			Source: AZF0947-01			Prepared: 06/28/16 Analyzed: 06/29/16					
Mercury	1.45			ug/L	1.6667	0.00786	86	80-120			



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Atlanta GA, 30339

Attention: Mr. Joju Abraham

July 01, 2016

Legend

Definition of Laboratory Terms

- ND** - Not Detected at levels equal to or greater than the MDL
- BRL** - Not Detected at levels equal to or greater than the RL
- RL** - Reporting Limit **MDL** - Method Detection Limit
- SOP** - Method run per Pace Standard Operating Procedure
- CFU** - Colony Forming Units
- DF** - Dilution Factor **TIC** - Tentatively Identified Compound

Sample Information

N-Nitrosodiphenylamine breaks down to diphenylamine in the GCMS; both analytes are reported as N-Nitrosodiphenylamine. Pace is not NELAC certified for N-Nitrosodiphenylamine.

Phthalic acid and phthalic anhydride are reported as dimethyl phthalate

Maleic acid and maleic anhydride are reported as dimethyl malate

1,2-Diphenylhydrazine breaks down to azobenzene in the GCMS; both analytes are reported as azobenzene

Definition of Qualifiers

- QR-03** The RPD value for the sample duplicate or MS/MSD was outside of QC acceptance limits due to suspected matrix interference and/or non-homogeneous sample matrix.
- QM-02** The spike recovery is outside acceptance limits due to insignificant spike amount as compared to sample concentration.
- J** Estimated value less than Reporting Limit (RL) but greater than Method Detection Limit(MDL) (CLP J-Flag).
- B-01** Analyte was detected in the associated method blank at an estimated level equal to or greater than the MDL. Sample values reported as greater than the MDL and less than 10x the method blank value are reported as estimated values.

Note: Unless otherwise noted, all results are reported on an as received basis.

Georgia Power Environmental Laboratory
 NELAP Certification #E57564
 2480 Maner Road, BIN 39110
 Atlanta, Georgia 30339
 Phone: (404) 799-2100
 Company: 8-530-2100

ANALYSIS REQUEST AND CHAIN OF CUSTODY RECORD

LAB USE ONLY

Work Order No. A2F0947
 Reviewed By: _____

Page 1 of 1

Sample Shipment Date:⁸ 6/24/16 ¹² Standard Turnaround Time
 Sample Received Date:⁹ _____

Company:¹ Southern Company Services
 Report To: Joju Abraham
 Address:² 241 Ralph McGill Blvd SE B10185
 Atlanta, GA 30308
 Phone/Fax:³ 404-506-7239
 Contact:⁴ Joju Abraham
 Project Location:⁵ Plant Scherer
 Account Number:⁶ _____
 Special Instructions:⁷ Scherer AP CCR GW

Sampled By:¹⁰ Wesley Bourne # of Business Days (Rush)
 (Must be cleared through Env. Lab. Prior to shipment)

LAB USE ONLY LAB ID	Sample Number ¹⁴	Collection ¹⁵		Sample Description ¹⁶	Sample Type	Matrix	No. of Containers ¹⁸	Signature ¹⁷	PRESERVATIVE ²⁰			ANALYSIS REQUESTED ²¹	Sample Type Key: ²²			Comments
		Date	Time						HNO3	Ice	HNO3		0-Diox	0-Other	C-Composite	
	SG-WA-24	6/23/16	0925	Metals app. III & IV EPA 6020 & EPA 7470 C.I. F. SO4 EPA 300 TDS SM2540C Radium 226/228 SW-846 9315 & 9320	G	GW	3									1
	SG-WA-5	6/23/16	1400		G	GW	3									2
	DUP-5	6/23/16	-		G	GW	3									3

Relinquished by:²⁵ _____ Date/Time 07/06/16 0835
 Received by:²⁷ Date/Time 07/06/16 0835
 Relinquished by: Date/Time 08/22/16 0835
 Received by: Date/Time 6-24-16 0835

LAB USE ONLY: Sample Receipt Information²⁸
Madhavan, 06/24/16, 1525, 1ce, 2c
In fact, Pace Courier, GP

Georgia Power Environmental Laboratory
 NELAP Certification #E57554
 2480 Maner Road, BIN 39110
 Atlanta, Georgia 30339
 Phone: (404) 799-2100
 Company: 8-530-2100

ANALYSIS REQUEST AND
 CHAIN OF CUSTODY RECORD

LAB
 USE
 ONLY

Work Order No. AZFC0947
 Reviewed By: _____
 Page 1 of 1

Sample Shipment Date: 6/24/16 ¹² Standard Turnaround Time
 Sample Received Date: 6/24/16

Company: Southern Company Services
 Report To: Joju Abraham
 Address: 241 Ralph McGill Blvd SE B10185
Atlanta, GA 30308
 Phone/Fax: 404-506-7239
 Contact: Joju Abraham
 Project Location: Plant Scherer
 Account Number: _____
 Special Instructions: Scherer AP CCR GW

Sampled By: Mivanda Steffer # of Business Days (Rush)
 (Must be cleared through Env. Lab. Prior to shipment)

Mivanda Steffer
 Signature
 Authorization to subcontract analysis will be assumed acceptable by customer unless stated otherwise.

LAB USE ONLY LAB ID	Sample Number ¹⁴	Collection ¹⁵		Sample Description ¹⁶	Sample Type ¹⁷	Matrix ¹⁸	No. of Containers ¹⁹	PRESERVATIVE ²⁰			ANALYSIS REQUESTED ²¹	Sample Type Key: ²²		
		Date	Time					HNO3	Ice	HNO3		N	N	Other
	SGWA-1	6/23/16	1024		G	GW	3				EPA 6020 & EPA 7470 Metals spp. III & IV			
	SGWA-2	6/23/16	1505		G	GW	3				CI. F. SO4 EPA 300 TDS SM2540C			
											Radium 226/228 SW-846 9315 & 9320			

Relinquished by: Mivanda Steffer Date/Time 6/24/16 0710
 Received by: [Signature] Date/Time 6/24/16 0716
 Relinquished by: [Signature] Date/Time 6/24/16 0833
 Received by: [Signature] Date/Time 6/24/16 0835

LAB USE ONLY: Sample Receipt Information ²³
 Relinquished by: Mivanda Steffer Date/Time 06/24/16 1525
 Received by: [Signature] Date/Time 06/24/16 1525
 Comments: Intact, Pace Courier. YP

LAB USE ONLY

Work Order No. AZFO947
Reviewed By

Page 1 of 1

Standard Turnaround Time

Sample Shipment Date: 6/24/16

Sample Received Date:

of Business Days (Rush)

Sampled By: Charles Watson

Signature

Authorization to subcontract analysis will be assumed acceptable by customer unless stated otherwise

LAB USE ONLY

LAB USE ONLY

LAB USE ONLY

Georgia Power Environmental Laboratory
NELAP Certification #E57554
480 Maner Road, BIN 39110
Atlanta, Georgia 30339
Phone: (404) 799-2100
Company: 8-530-2100

Southern Company Services
Joju Abraham
241 Ralph McGill Blvd SE B10185
Atlanta, GA 30308
404-506-7239
Joju Abraham
Plant Scherer
Scherer CCR GW

Sample Shipment Date: 6/24/16
Sample Received Date:
of Business Days (Rush)

Sampled By: Charles Watson
Signature
Authorization to subcontract analysis will be assumed acceptable by customer unless stated otherwise

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LAB USE ONLY: Sample Receipt Information

Relinquished by: [Signature] Date/Time: 6/24/16 740
Relinquished by: [Signature] Date/Time: 6/24/16 0710
Relinquished by: [Signature] Date/Time: 6/24/16 0832
Relinquished by: [Signature] Date/Time: 6-24-16 0855
Madman, 06/24/16, 1525, 100, 21
Intact, 4P, pice coverer.



PACE ANALYTICAL SERVICES, INC.

Environmental Monitoring & Laboratory Analysis
110 Technology Parkway, Peachtree Corners, GA 30092
(770) 734-4200 FAX (770) 734-4201

LOG-IN CHECKLIST

Printed: 7/1/2016 5:13:28PM

Attn: Mr. Joju Abraham

Client: Georgia Power

Project: CCR Event

Date Received: 06/24/16 15:25

Work Order: AZF0947

Logged In By: Mohammad M. Rahman

OBSERVATIONS

#Samples: 7

#Containers: 21

Minimum Temp(C): 2.0

Maximum Temp(C): 2.0

Custody Seal(s) Used: Yes

CHECKLIST ITEMS

COC included with Samples	YES
Sample Container(s) Intact	YES
Chain of Custody Complete	YES
Sample Container(s) Match COC	YES
Custody seal Intact	YES
Temperature in Compliance	YES
Sufficient Sample Volume for Analysis	YES
Zero Headspace Maintained for VOA Analyses	YES
Samples labeled preserved (If Applicable)	YES
Samples received within Allowable Hold Times	YES
Samples Received on Ice	YES
Preservation Confirmed	YES

Comments:



PACE ANALYTICAL SERVICES, INC.

Environmental Monitoring & Laboratory Analysis
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(770) 734-4200 FAX (770) 734-4201

Laboratory Report

Prepared For:

**Georgia Power
2480 Maner Road
Atlanta, GA 30339**

Attention: Mr. Joju Abraham

Report Number: AZF1000

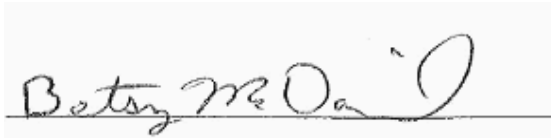
July 05, 2016

Project: CCR Event

Project #: Plant Scherer

We appreciate the opportunity to provide the analytical support for your project. The analytical results in this report are based upon information supplied by you, the client, and are for your exclusive use. If you have any questions regarding this data package, please do not hesitate to call.

Approved:



Project Manager

This report may not be reproduced, except in full, without written approval from Pace Analytical Services, Inc.
All test results relate only to the samples analyzed.



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Georgia Power
2480 Maner Road
Atlanta GA, 30339

Attention: Mr. Joju Abraham

July 05, 2016

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
SGWA-25	AZF1000-01	Ground Water	06/27/16 10:40	06/28/16 12:00
EQB-5	AZF1000-02	DI Water	06/27/16 10:51	06/28/16 12:00
SGWC-7	AZF1000-03	Ground Water	06/27/16 14:52	06/28/16 12:00
SGWC-6	AZF1000-04	Ground Water	06/27/16 11:09	06/28/16 12:00
SGWC-8	AZF1000-05	Ground Water	06/27/16 14:55	06/28/16 12:00



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Georgia Power
 2480 Maner Road
 Atlanta GA, 30339

Attention: Mr. Joju Abraham

July 05, 2016

Report No.: AZF1000

Project: CCR Event

Client ID: SGWA-25

Lab Number ID: AZF1000-01

Date/Time Sampled: 6/27/2016 10:40:00AM

Date/Time Received: 6/28/2016 12:00:00PM

Matrix: Ground Water

Analyte	Result	RL	MDL	Units	Method	Qual.	DF	Preparation Date	Analytical Date	Batch	Init.
General Chemistry											
Total Dissolved Solids	117	25	10	mg/L	SM 2540 C		1	06/29/16 15:50	06/29/16 15:50	6060726	JPT
Inorganic Anions											
Chloride	2.9	0.25	0.01	mg/L	EPA 300.0	B-01	1	06/30/16 10:31	06/30/16 13:32	6060772	RLC
Fluoride	0.03	0.30	0.02	mg/L	EPA 300.0	J	1	06/30/16 10:31	06/30/16 13:32	6060772	RLC
Sulfate	0.61	1.0	0.05	mg/L	EPA 300.0	J	1	06/30/16 10:31	06/30/16 13:32	6060772	RLC
Metals, Total											
Antimony	0.0003	0.0030	0.0002	mg/L	EPA 6020B	B-01, J	1	06/29/16 08:15	06/29/16 12:18	6060710	CSW
Arsenic	ND	0.0050	0.0007	mg/L	EPA 6020B		1	06/29/16 08:15	06/29/16 12:18	6060710	CSW
Barium	0.0253	0.0100	0.0003	mg/L	EPA 6020B		1	06/29/16 08:15	06/29/16 12:18	6060710	CSW
Beryllium	ND	0.0030	0.00009	mg/L	EPA 6020B		1	06/29/16 08:15	06/29/16 12:18	6060710	CSW
Boron	0.0052	0.100	0.0044	mg/L	EPA 6020B	J	1	06/29/16 08:15	06/29/16 12:18	6060710	CSW
Cadmium	ND	0.0010	0.0001	mg/L	EPA 6020B		1	06/29/16 08:15	06/29/16 12:18	6060710	CSW
Calcium	9.16	0.500	0.0126	mg/L	EPA 6020B		1	06/29/16 08:15	06/29/16 12:18	6060710	CSW
Chromium	ND	0.0100	0.0004	mg/L	EPA 6020B		1	06/29/16 08:15	06/29/16 12:18	6060710	CSW
Cobalt	0.0099	0.0100	0.0003	mg/L	EPA 6020B	J	1	06/29/16 08:15	06/29/16 12:18	6060710	CSW
Lead	ND	0.0050	0.00008	mg/L	EPA 6020B		1	06/29/16 08:15	06/29/16 12:18	6060710	CSW
Molybdenum	ND	0.0100	0.0005	mg/L	EPA 6020B		1	06/29/16 08:15	06/29/16 12:18	6060710	CSW
Selenium	ND	0.0100	0.0009	mg/L	EPA 6020B		1	06/29/16 08:15	06/29/16 12:18	6060710	CSW
Thallium	ND	0.0010	0.00006	mg/L	EPA 6020B		1	06/29/16 08:15	06/29/16 12:18	6060710	CSW
Lithium	ND	0.0500	0.0012	mg/L	EPA 6020B		1	06/29/16 08:15	06/29/16 12:18	6060710	CSW
Mercury	ND	0.00050	0.00013	mg/L	EPA 7470A		1	06/30/16 14:45	07/01/16 14:55	6060755	CSW



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Georgia Power
 2480 Maner Road
 Atlanta GA, 30339

Attention: Mr. Joju Abraham

July 05, 2016

Report No.: AZF1000

Project: CCR Event

Client ID: EQB-5

Lab Number ID: AZF1000-02

Date/Time Sampled: 6/27/2016 10:51:00AM

Date/Time Received: 6/28/2016 12:00:00PM

Matrix: DI Water

Analyte	Result	RL	MDL	Units	Method	Qual.	DF	Preparation Date	Analytical Date	Batch	Init.
General Chemistry											
Total Dissolved Solids	ND	25	10	mg/L	SM 2540 C		1	06/29/16 15:50	06/29/16 15:50	6060726	JPT
Inorganic Anions											
Chloride	0.03	0.25	0.01	mg/L	EPA 300.0	B-01, J	1	06/30/16 10:31	06/30/16 13:52	6060772	RLC
Fluoride	ND	0.30	0.02	mg/L	EPA 300.0		1	06/30/16 10:31	06/30/16 13:52	6060772	RLC
Sulfate	ND	1.0	0.05	mg/L	EPA 300.0		1	06/30/16 10:31	06/30/16 13:52	6060772	RLC
Metals, Total											
Antimony	ND	0.0030	0.0002	mg/L	EPA 6020B		1	06/29/16 08:15	06/29/16 12:23	6060710	CSW
Arsenic	ND	0.0050	0.0007	mg/L	EPA 6020B		1	06/29/16 08:15	06/29/16 12:23	6060710	CSW
Barium	ND	0.0100	0.0003	mg/L	EPA 6020B		1	06/29/16 08:15	06/29/16 12:23	6060710	CSW
Beryllium	ND	0.0030	0.00009	mg/L	EPA 6020B		1	06/29/16 08:15	06/29/16 12:23	6060710	CSW
Boron	ND	0.100	0.0044	mg/L	EPA 6020B		1	06/29/16 08:15	06/29/16 12:23	6060710	CSW
Cadmium	ND	0.0010	0.0001	mg/L	EPA 6020B		1	06/29/16 08:15	06/29/16 12:23	6060710	CSW
Calcium	ND	0.500	0.0126	mg/L	EPA 6020B		1	06/29/16 08:15	06/29/16 12:23	6060710	CSW
Chromium	ND	0.0100	0.0004	mg/L	EPA 6020B		1	06/29/16 08:15	06/29/16 12:23	6060710	CSW
Cobalt	ND	0.0100	0.0003	mg/L	EPA 6020B		1	06/29/16 08:15	06/29/16 12:23	6060710	CSW
Lead	ND	0.0050	0.00008	mg/L	EPA 6020B		1	06/29/16 08:15	06/29/16 12:23	6060710	CSW
Molybdenum	ND	0.0100	0.0005	mg/L	EPA 6020B		1	06/29/16 08:15	06/29/16 12:23	6060710	CSW
Selenium	ND	0.0100	0.0009	mg/L	EPA 6020B		1	06/29/16 08:15	06/29/16 12:23	6060710	CSW
Thallium	ND	0.0010	0.00006	mg/L	EPA 6020B		1	06/29/16 08:15	06/29/16 12:23	6060710	CSW
Lithium	ND	0.0500	0.0012	mg/L	EPA 6020B		1	06/29/16 08:15	06/29/16 12:23	6060710	CSW
Mercury	ND	0.00050	0.00013	mg/L	EPA 7470A		1	06/30/16 14:45	07/01/16 14:58	6060755	CSW



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Environmental Monitoring & Laboratory Analysis
 110 Technology Parkway, Peachtree Corners, GA 30092
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Georgia Power
 2480 Maner Road
 Atlanta GA, 30339

Attention: Mr. Joju Abraham

July 05, 2016

Report No.: AZF1000

Project: CCR Event

Client ID: SGWC-7

Lab Number ID: AZF1000-03

Date/Time Sampled: 6/27/2016 2:52:00PM

Date/Time Received: 6/28/2016 12:00:00PM

Matrix: Ground Water

Analyte	Result	RL	MDL	Units	Method	Qual.	DF	Preparation Date	Analytical Date	Batch	Init.
General Chemistry											
Total Dissolved Solids	275	25	10	mg/L	SM 2540 C		1	06/29/16 15:50	06/29/16 15:50	6060726	JPT
Inorganic Anions											
Chloride	6.7	0.25	0.01	mg/L	EPA 300.0	B-01	1	06/30/16 10:31	06/30/16 14:13	6060772	RLC
Fluoride	0.23	0.30	0.02	mg/L	EPA 300.0	J	1	06/30/16 10:31	06/30/16 14:13	6060772	RLC
Sulfate	17	1.0	0.05	mg/L	EPA 300.0		1	06/30/16 10:31	06/30/16 14:13	6060772	RLC
Metals, Total											
Antimony	0.0004	0.0030	0.0002	mg/L	EPA 6020B	B-01, J	1	06/29/16 08:15	06/29/16 12:41	6060710	CSW
Arsenic	0.0009	0.0050	0.0007	mg/L	EPA 6020B	J	1	06/29/16 08:15	06/29/16 12:41	6060710	CSW
Barium	0.353	0.0100	0.0003	mg/L	EPA 6020B		1	06/29/16 08:15	06/29/16 12:41	6060710	CSW
Beryllium	ND	0.0030	0.00009	mg/L	EPA 6020B		1	06/29/16 08:15	06/29/16 12:41	6060710	CSW
Boron	0.0354	0.100	0.0044	mg/L	EPA 6020B	J	1	06/29/16 08:15	06/29/16 12:41	6060710	CSW
Cadmium	ND	0.0010	0.0001	mg/L	EPA 6020B		1	06/29/16 08:15	06/29/16 12:41	6060710	CSW
Calcium	27.9	5.00	0.126	mg/L	EPA 6020B		10	06/29/16 08:15	06/30/16 12:20	6060710	CSW
Chromium	ND	0.0100	0.0004	mg/L	EPA 6020B		1	06/29/16 08:15	06/29/16 12:41	6060710	CSW
Cobalt	0.0143	0.0100	0.0003	mg/L	EPA 6020B		1	06/29/16 08:15	06/29/16 12:41	6060710	CSW
Lead	ND	0.0050	0.00008	mg/L	EPA 6020B		1	06/29/16 08:15	06/29/16 12:41	6060710	CSW
Molybdenum	0.0033	0.0100	0.0005	mg/L	EPA 6020B	J	1	06/29/16 08:15	06/29/16 12:41	6060710	CSW
Selenium	ND	0.0100	0.0009	mg/L	EPA 6020B		1	06/29/16 08:15	06/29/16 12:41	6060710	CSW
Thallium	ND	0.0010	0.00006	mg/L	EPA 6020B		1	06/29/16 08:15	06/29/16 12:41	6060710	CSW
Lithium	0.0031	0.0500	0.0012	mg/L	EPA 6020B	J	1	06/29/16 08:15	06/29/16 12:41	6060710	CSW
Mercury	ND	0.00050	0.00013	mg/L	EPA 7470A		1	06/30/16 14:45	07/01/16 15:00	6060755	CSW



PACE ANALYTICAL SERVICES, INC.

Environmental Monitoring & Laboratory Analysis
 110 Technology Parkway, Peachtree Corners, GA 30092
 (770) 734-4200 FAX (770) 734-4201

Georgia Power
 2480 Maner Road
 Atlanta GA, 30339

Attention: Mr. Joju Abraham

July 05, 2016

Report No.: AZF1000

Project: CCR Event

Client ID: SGWC-6

Lab Number ID: AZF1000-04

Date/Time Sampled: 6/27/2016 11:09:00AM

Date/Time Received: 6/28/2016 12:00:00PM

Matrix: Ground Water

Analyte	Result	RL	MDL	Units	Method	Qual.	DF	Preparation Date	Analytical Date	Batch	Init.
General Chemistry											
Total Dissolved Solids	112	25	10	mg/L	SM 2540 C		1	06/29/16 15:50	06/29/16 15:50	6060726	JPT
Inorganic Anions											
Chloride	2.5	0.25	0.01	mg/L	EPA 300.0	B-01	1	06/30/16 10:31	06/30/16 14:34	6060772	RLC
Fluoride	0.21	0.30	0.02	mg/L	EPA 300.0	J	1	06/30/16 10:31	06/30/16 14:34	6060772	RLC
Sulfate	0.86	1.0	0.05	mg/L	EPA 300.0	J	1	06/30/16 10:31	06/30/16 14:34	6060772	RLC
Metals, Total											
Antimony	ND	0.0030	0.0002	mg/L	EPA 6020B		1	06/29/16 08:15	06/29/16 12:46	6060710	CSW
Arsenic	ND	0.0050	0.0007	mg/L	EPA 6020B		1	06/29/16 08:15	06/29/16 12:46	6060710	CSW
Barium	0.101	0.0100	0.0003	mg/L	EPA 6020B		1	06/29/16 08:15	06/29/16 12:46	6060710	CSW
Beryllium	ND	0.0030	0.00009	mg/L	EPA 6020B		1	06/29/16 08:15	06/29/16 12:46	6060710	CSW
Boron	0.0051	0.100	0.0044	mg/L	EPA 6020B	J	1	06/29/16 08:15	06/29/16 12:46	6060710	CSW
Cadmium	ND	0.0010	0.0001	mg/L	EPA 6020B		1	06/29/16 08:15	06/29/16 12:46	6060710	CSW
Calcium	7.48	0.500	0.0126	mg/L	EPA 6020B		1	06/29/16 08:15	06/29/16 12:46	6060710	CSW
Chromium	ND	0.0100	0.0004	mg/L	EPA 6020B		1	06/29/16 08:15	06/29/16 12:46	6060710	CSW
Cobalt	0.0020	0.0100	0.0003	mg/L	EPA 6020B	J	1	06/29/16 08:15	06/29/16 12:46	6060710	CSW
Lead	ND	0.0050	0.00008	mg/L	EPA 6020B		1	06/29/16 08:15	06/29/16 12:46	6060710	CSW
Molybdenum	0.0007	0.0100	0.0005	mg/L	EPA 6020B	J	1	06/29/16 08:15	06/29/16 12:46	6060710	CSW
Selenium	ND	0.0100	0.0009	mg/L	EPA 6020B		1	06/29/16 08:15	06/29/16 12:46	6060710	CSW
Thallium	ND	0.0010	0.00006	mg/L	EPA 6020B		1	06/29/16 08:15	06/29/16 12:46	6060710	CSW
Lithium	ND	0.0500	0.0012	mg/L	EPA 6020B		1	06/29/16 08:15	06/29/16 12:46	6060710	CSW
Mercury	ND	0.00050	0.00013	mg/L	EPA 7470A		1	06/30/16 14:45	07/01/16 15:02	6060755	CSW



PACE ANALYTICAL SERVICES, INC.

Environmental Monitoring & Laboratory Analysis
 110 Technology Parkway, Peachtree Corners, GA 30092
 (770) 734-4200 FAX (770) 734-4201

Georgia Power
 2480 Maner Road
 Atlanta GA, 30339

Attention: Mr. Joju Abraham

July 05, 2016

Report No.: AZF1000

Project: CCR Event

Client ID: SGWC-8

Lab Number ID: AZF1000-05

Date/Time Sampled: 6/27/2016 2:55:00PM

Date/Time Received: 6/28/2016 12:00:00PM

Matrix: Ground Water

Analyte	Result	RL	MDL	Units	Method	Qual.	DF	Preparation Date	Analytical Date	Batch	Init.
General Chemistry											
Total Dissolved Solids	423	25	10	mg/L	SM 2540 C		1	06/29/16 15:50	06/29/16 15:50	6060726	JPT
Inorganic Anions											
Chloride	13	0.25	0.01	mg/L	EPA 300.0	B-01	1	06/30/16 10:31	06/30/16 14:54	6060772	RLC
Fluoride	0.45	0.30	0.02	mg/L	EPA 300.0		1	06/30/16 10:31	06/30/16 14:54	6060772	RLC
Sulfate	64	2.0	0.10	mg/L	EPA 300.0		2	06/30/16 10:31	06/30/16 15:56	6060772	RLC
Metals, Total											
Antimony	ND	0.0030	0.0002	mg/L	EPA 6020B		1	06/29/16 08:15	06/29/16 12:51	6060710	CSW
Arsenic	ND	0.0050	0.0007	mg/L	EPA 6020B		1	06/29/16 08:15	06/29/16 12:51	6060710	CSW
Barium	0.205	0.0100	0.0003	mg/L	EPA 6020B		1	06/29/16 08:15	06/29/16 12:51	6060710	CSW
Beryllium	ND	0.0030	0.00009	mg/L	EPA 6020B		1	06/29/16 08:15	06/29/16 12:51	6060710	CSW
Boron	0.0767	0.100	0.0044	mg/L	EPA 6020B	J	1	06/29/16 08:15	06/29/16 12:51	6060710	CSW
Cadmium	ND	0.0010	0.0001	mg/L	EPA 6020B		1	06/29/16 08:15	06/29/16 12:51	6060710	CSW
Calcium	47.0	5.00	0.126	mg/L	EPA 6020B		10	06/29/16 08:15	06/30/16 12:25	6060710	CSW
Chromium	ND	0.0100	0.0004	mg/L	EPA 6020B		1	06/29/16 08:15	06/29/16 12:51	6060710	CSW
Cobalt	0.0012	0.0100	0.0003	mg/L	EPA 6020B	J	1	06/29/16 08:15	06/29/16 12:51	6060710	CSW
Lead	ND	0.0050	0.00008	mg/L	EPA 6020B		1	06/29/16 08:15	06/29/16 12:51	6060710	CSW
Molybdenum	0.0008	0.0100	0.0005	mg/L	EPA 6020B	J	1	06/29/16 08:15	06/29/16 12:51	6060710	CSW
Selenium	ND	0.0100	0.0009	mg/L	EPA 6020B		1	06/29/16 08:15	06/29/16 12:51	6060710	CSW
Thallium	ND	0.0010	0.00006	mg/L	EPA 6020B		1	06/29/16 08:15	06/29/16 12:51	6060710	CSW
Lithium	0.0013	0.0500	0.0012	mg/L	EPA 6020B	J	1	06/29/16 08:15	06/29/16 12:51	6060710	CSW
Mercury	ND	0.00050	0.00013	mg/L	EPA 7470A		1	06/30/16 14:45	07/01/16 15:05	6060755	CSW



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General Chemistry - Quality Control

Analyte	Result	RL	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 6060726 - SM 2540 C											
Blank (6060726-BLK1)						Prepared & Analyzed: 06/29/16					
Total Dissolved Solids	ND	10	10	mg/L							
LCS (6060726-BS1)						Prepared & Analyzed: 06/29/16					
Total Dissolved Solids	411	10	10	mg/L	400.00		103	84-108			
Duplicate (6060726-DUP1)						Prepared & Analyzed: 06/29/16					
						Source: AZF1000-03					
Total Dissolved Solids	277	10	10	mg/L		275			0.7	10	



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Report No.: AZF1000

Inorganic Anions - Quality Control

Analyte	Result	RL	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 6060772 - EPA 300.0											
Blank (6060772-BLK1)						Prepared & Analyzed: 06/30/16					
Chloride	0.04	0.25	0.01	mg/L							J
Fluoride	ND	0.30	0.02	mg/L							
Sulfate	ND	1.0	0.05	mg/L							
LCS (6060772-BS1)						Prepared & Analyzed: 06/30/16					
Chloride	9.86	0.25	0.01	mg/L	10.010		99	90-110			
Fluoride	10.4	0.30	0.02	mg/L	10.010		103	90-110			
Sulfate	9.94	1.0	0.05	mg/L	10.010		99	90-110			
Matrix Spike (6060772-MS1)						Source: AZF1000-05 Prepared & Analyzed: 06/30/16					
Chloride	22.4	0.25	0.01	mg/L	10.010	13.1	93	90-110			
Fluoride	10.8	0.30	0.02	mg/L	10.010	0.45	103	90-110			
Sulfate	68.6	1.0	0.05	mg/L	10.010	65.1	35	90-110			QM-05
Matrix Spike Dup (6060772-MSD1)						Source: AZF1000-05 Prepared & Analyzed: 06/30/16					
Chloride	22.4	0.25	0.01	mg/L	10.010	13.1	93	90-110	0.3	15	
Fluoride	10.8	0.30	0.02	mg/L	10.010	0.45	104	90-110	0.6	15	
Sulfate	68.6	1.0	0.05	mg/L	10.010	65.1	35	90-110	0.07	15	QM-05



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Metals, Total - Quality Control

Analyte	Result	RL	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 6060710 - EPA 3005A											
Blank (6060710-BLK1)						Prepared & Analyzed: 06/29/16					
Antimony	0.0005	0.0030	0.0002	mg/L							J
Arsenic	ND	0.0050	0.0007	mg/L							
Barium	ND	0.0100	0.0003	mg/L							
Beryllium	ND	0.0030	0.00009	mg/L							
Boron	ND	0.100	0.0044	mg/L							
Cadmium	ND	0.0010	0.0001	mg/L							
Calcium	ND	0.500	0.0126	mg/L							
Chromium	ND	0.0100	0.0004	mg/L							
Cobalt	ND	0.0100	0.0003	mg/L							
Copper	ND	0.0250	0.0004	mg/L							
Lead	ND	0.0050	0.00008	mg/L							
Molybdenum	ND	0.0100	0.0005	mg/L							
Nickel	ND	0.0100	0.0005	mg/L							
Selenium	ND	0.0100	0.0009	mg/L							
Silver	ND	0.0100	0.0002	mg/L							
Thallium	ND	0.0010	0.00006	mg/L							
Vanadium	ND	0.0100	0.0016	mg/L							
Zinc	ND	0.0100	0.0013	mg/L							
Lithium	ND	0.0500	0.0012	mg/L							
LCS (6060710-BS1)						Prepared & Analyzed: 06/29/16					
Antimony	0.0988	0.0030	0.0002	mg/L	0.10000		99	80-120			
Arsenic	0.0957	0.0050	0.0007	mg/L	0.10000		96	80-120			
Barium	0.0938	0.0100	0.0003	mg/L	0.10000		94	80-120			
Beryllium	0.0997	0.0030	0.00009	mg/L	0.10000		100	80-120			
Boron	0.951	0.100	0.0044	mg/L	1.0000		95	80-120			
Cadmium	0.0985	0.0010	0.0001	mg/L	0.10000		98	80-120			
Calcium	0.958	0.500	0.0126	mg/L	1.0000		96	80-120			
Chromium	0.0992	0.0100	0.0004	mg/L	0.10000		99	80-120			
Cobalt	0.0933	0.0100	0.0003	mg/L	0.10000		93	80-120			
Copper	0.0955	0.0250	0.0004	mg/L	0.10000		95	80-120			
Lead	0.0927	0.0050	0.00008	mg/L	0.10000		93	80-120			
Molybdenum	0.0960	0.0100	0.0005	mg/L	0.10000		96	80-120			
Nickel	0.0929	0.0100	0.0005	mg/L	0.10000		93	80-120			
Selenium	0.0952	0.0100	0.0009	mg/L	0.10000		95	80-120			
Silver	0.0981	0.0100	0.0002	mg/L	0.10000		98	80-120			
Thallium	0.0941	0.0010	0.00006	mg/L	0.10000		94	80-120			
Vanadium	0.0968	0.0100	0.0016	mg/L	0.10000		97	80-120			
Zinc	0.0955	0.0100	0.0013	mg/L	0.10000		96	80-120			
Lithium	0.101	0.0500	0.0012	mg/L	0.10000		101	80-120			



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Metals, Total - Quality Control

Analyte	Result	RL	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 6060710 - EPA 3005A											
Matrix Spike (6060710-MS1)			Source: AZF1000-01			Prepared & Analyzed: 06/29/16					
Antimony	0.0998	0.0030	0.0002	mg/L	0.10000	0.0003	99	75-125			
Arsenic	0.0952	0.0050	0.0007	mg/L	0.10000	ND	95	75-125			
Barium	0.123	0.0100	0.0003	mg/L	0.10000	0.0253	98	75-125			
Beryllium	0.0905	0.0030	0.00009	mg/L	0.10000	ND	91	75-125			
Boron	0.902	0.100	0.0044	mg/L	1.0000	0.0052	90	75-125			
Cadmium	0.0950	0.0010	0.0001	mg/L	0.10000	ND	95	75-125			
Calcium	9.69	0.500	0.0126	mg/L	1.0000	9.16	53	75-125			QM-02
Chromium	0.0980	0.0100	0.0004	mg/L	0.10000	ND	98	75-125			
Cobalt	0.106	0.0100	0.0003	mg/L	0.10000	0.0099	96	75-125			
Copper	0.0964	0.0250	0.0004	mg/L	0.10000	ND	96	75-125			
Lead	0.0898	0.0050	0.00008	mg/L	0.10000	ND	90	75-125			
Molybdenum	0.0995	0.0100	0.0005	mg/L	0.10000	ND	99	75-125			
Nickel	0.0969	0.0100	0.0005	mg/L	0.10000	0.0025	94	75-125			
Selenium	0.0953	0.0100	0.0009	mg/L	0.10000	ND	95	75-125			
Silver	0.0949	0.0100	0.0002	mg/L	0.10000	ND	95	75-125			
Thallium	0.0908	0.0010	0.00006	mg/L	0.10000	ND	91	75-125			
Vanadium	0.100	0.0100	0.0016	mg/L	0.10000	0.0025	98	75-125			
Zinc	0.0976	0.0100	0.0013	mg/L	0.10000	0.0035	94	75-125			
Lithium	0.0912	0.0500	0.0012	mg/L	0.10000	ND	91	75-125			
Matrix Spike Dup (6060710-MSD1)			Source: AZF1000-01			Prepared & Analyzed: 06/29/16					
Antimony	0.0992	0.0030	0.0002	mg/L	0.10000	0.0003	99	75-125	0.5	20	
Arsenic	0.0950	0.0050	0.0007	mg/L	0.10000	ND	95	75-125	0.2	20	
Barium	0.117	0.0100	0.0003	mg/L	0.10000	0.0253	92	75-125	5	20	
Beryllium	0.0937	0.0030	0.00009	mg/L	0.10000	ND	94	75-125	3	20	
Boron	0.954	0.100	0.0044	mg/L	1.0000	0.0052	95	75-125	6	20	
Cadmium	0.0951	0.0010	0.0001	mg/L	0.10000	ND	95	75-125	0.07	20	
Calcium	11.1	2.50	0.0628	mg/L	1.0000	9.16	194	75-125	14	20	QM-02
Chromium	0.101	0.0100	0.0004	mg/L	0.10000	ND	101	75-125	3	20	
Cobalt	0.106	0.0100	0.0003	mg/L	0.10000	0.0099	96	75-125	0.07	20	
Copper	0.0964	0.0250	0.0004	mg/L	0.10000	ND	96	75-125	0.04	20	
Lead	0.0923	0.0050	0.00008	mg/L	0.10000	ND	92	75-125	3	20	
Molybdenum	0.0972	0.0100	0.0005	mg/L	0.10000	ND	97	75-125	2	20	
Nickel	0.0993	0.0100	0.0005	mg/L	0.10000	0.0025	97	75-125	2	20	
Selenium	0.0917	0.0100	0.0009	mg/L	0.10000	ND	92	75-125	4	20	
Silver	0.0953	0.0100	0.0002	mg/L	0.10000	ND	95	75-125	0.5	20	
Thallium	0.0919	0.0010	0.00006	mg/L	0.10000	ND	92	75-125	1	20	
Vanadium	0.104	0.0100	0.0016	mg/L	0.10000	0.0025	102	75-125	4	20	
Zinc	0.101	0.0100	0.0013	mg/L	0.10000	0.0035	97	75-125	3	20	
Lithium	0.0914	0.0500	0.0012	mg/L	0.10000	ND	91	75-125	0.3	20	



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Report No.: AZF1000

Metals, Total - Quality Control

Analyte	Result	RL	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 6060710 - EPA 3005A											
Post Spike (6060710-PS1)				Source: AZF1000-01			Prepared & Analyzed: 06/29/16				
Antimony	89.3			ug/L	100.00	0.296	89	80-120			
Arsenic	96.5			ug/L	100.00	0.642	96	80-120			
Barium	117			ug/L	100.00	25.3	91	80-120			
Beryllium	93.6			ug/L	100.00	0.0173	94	80-120			
Boron	926			ug/L	1000.0	5.20	92	80-120			
Cadmium	95.9			ug/L	100.00	0.0003	96	80-120			
Calcium	10600			ug/L	1000.0	9160	147	80-120			QM-02
Chromium	99.2			ug/L	100.00	-0.798	100	80-120			
Cobalt	105			ug/L	100.00	9.93	95	80-120			
Copper	94.7			ug/L	100.00	0.385	94	80-120			
Lead	89.6			ug/L	100.00	0.0574	90	80-120			
Molybdenum	97.3			ug/L	100.00	0.0961	97	80-120			
Nickel	97.7			ug/L	100.00	2.52	95	80-120			
Selenium	92.4			ug/L	100.00	-0.0284	92	80-120			
Silver	93.5			ug/L	100.00	0.0065	94	80-120			
Thallium	91.5			ug/L	100.00	0.0181	91	80-120			
Vanadium	103			ug/L	100.00	2.46	100	80-120			
Zinc	97.0			ug/L	100.00	3.50	93	80-120			
Lithium	90.1			ug/L	100.00	0.666	89	80-120			

Batch 6060755 - EPA 7470A

Blank (6060755-BLK1)				Prepared: 06/30/16 Analyzed: 07/01/16							
Mercury	ND	0.00050	0.00013	mg/L							
LCS (6060755-BS1)				Prepared: 06/30/16 Analyzed: 07/01/16							
Mercury	0.00227	0.00050	0.00013	mg/L	2.5000E-3		91	80-120			



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Report No.: AZF1000

Metals, Total - Quality Control

Analyte	Result	RL	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 6060755 - EPA 7470A											
Matrix Spike (6060755-MS1)			Source: AZF1093-08			Prepared: 06/30/16 Analyzed: 07/01/16					
Mercury	0.00223	0.00050	0.00013	mg/L	2.5000E-3	ND	89	75-125			
Matrix Spike Dup (6060755-MSD1)			Source: AZF1093-08			Prepared: 06/30/16 Analyzed: 07/01/16					
Mercury	0.00227	0.00050	0.00013	mg/L	2.5000E-3	ND	91	75-125	2	20	
Post Spike (6060755-PS1)			Source: AZF1093-08			Prepared: 06/30/16 Analyzed: 07/01/16					
Mercury	1.48			ug/L	1.6667	-0.0146	90	80-120			



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July 05, 2016

Legend

Definition of Laboratory Terms

- ND** - Not Detected at levels equal to or greater than the MDL
BRL - Not Detected at levels equal to or greater than the RL
RL - Reporting Limit **MDL** - Method Detection Limit
SOP - Method run per Pace Standard Operating Procedure
CFU - Colony Forming Units
DF - Dilution Factor **TIC** - Tentatively Identified Compound

Sample Information

N-Nitrosodiphenylamine breaks down to diphenylamine in the GCMS; both analytes are reported as N-Nitrosodiphenylamine. Pace is not NELAC certified for N-Nitrosodiphenylamine.

Phthalic acid and phthalic anhydride are reported as dimethyl phthalate

Maleic acid and maleic anhydride are reported as dimethyl malate

1,2-Diphenylhydrazine breaks down to azobenzene in the GCMS; both analytes are reported as azobenzene

Definition of Qualifiers

- QM-05** The spike recovery was outside acceptance limits for the MS and/or MSD and/or PDS due to suspected matrix interference. Sample results for the QC batch were accepted based on acceptable LCS recoveries.
- QM-02** The spike recovery is outside acceptance limits due to insignificant spike amount as compared to sample concentration.
- J** Estimated value less than Reporting Limit (RL) but greater than Method Detection Limit(MDL) (CLP J-Flag).
- B-01** Analyte was detected in the associated method blank at an estimated level equal to or greater than the MDL. Sample values reported as greater than the MDL and less than 10x the method blank value are reported as estimated values.

Note: Unless otherwise noted, all results are reported on an as received basis.

Georgia Power Environmental Laboratory
 IELAP Certification #E575#4
 480 Maner Road, BIN 39110
 Atlanta, Georgia 30339
 Phone: (404) 799-2100
 Company: 8-530-2100

ANALYSIS REQUEST AND CHAIN OF CUSTODY RECORD

LAB USE ONLY

Work Order No. AZF1000
 Reviewed By:

Page 1 of 1

Sample Shipment Date: 6/28/16 Standard Turnaround Time

Sample Received Date: _____
 Sampled By: Miranda Staffor # of Business Days (Rush) _____
 (Must be cleared through Env. Lab. Prior to shipment)

Company: Southern Company Services
 Report To: Joju Abraham
 Address: 241 Ralph McGill Blvd SE B10185
Atlanta, GA 30308
 Phone/Fax: 404-506-7239
 Contact: Joju Abraham
 Project Location: Plant Scherer
 Account Number: _____
 Special Instructions: Scherer AP CCR GW

Miranda Staffor
 Signature
 Authorization to subcontract analysis will be assumed acceptable by customer unless stated otherwise.

LAB USE ONLY LAB ID	Sample Number ¹⁴	Collection ¹⁵		Sample Description ¹⁶	Matrix	No. of Containers ¹⁵	PRESERVATIVE ²⁰			ANALYSIS REQUESTED ²¹	Sample Type Key: ²²			LAB USE ONLY ²⁵ Comments
		Date	Time				HNO3 N	Ice I	HNO3 N		S-Geol	O-Other	C-Concrete	
	SGWA-25	6/27/16	1040		G	3	X	X	X	EPA 6020 & EPA 7470 Metals app III & IV				1
	EQB-5	6/27/16	1051		G	3	X	X	X	CI, F, SO4 EPA 300 TDS SM2540C				2
	SGWC-7	6/27/16	1452		G	3	X	X	X	Radium 226/228 SW-846 9315 & 9320				3

LAB USE ONLY: Sample Receipt Information ²⁸

Relinquished by: Miranda Staffor Date/Time: 6/28/16 0807
 Received by: Joju Abraham Date/Time: 6/28/16 0807
 Relinquished by: Joju Abraham Date/Time: 6/28/16 0807
 Received by: Joju Abraham Date/Time: 6/28/16 0850

Madhavan 06/28/16, 1200, 100, 2°C
Intact, 4P, Pace Courier

Georgia Power Environmental Laboratory
 NELAP Certification #E57554
 2480 Maner Road, BIN 39110
 Atlanta, Georgia 30339
 Phone: (404) 799-2100
 Company: 8-530-2100

ANALYSIS REQUEST AND CHAIN OF CUSTODY RECORD

LAB USE ONLY
 Work Order No. A2F1000
 Reviewed By: _____
 Page 1 of 1

Sample Shipment Date:⁸ 6/28/10 Standard Turnaround Time
 Sample Received Date:⁹ _____
 Sampled By:¹⁰ R. Hill # of Business Days (Rush)
 (Must be cleared through Env. Lab. Prior to shipment)

Company:¹ Southern Company Services
 Report To: Joju Abraham
 Address:² 241 Ralph McGill Blvd SE B10185
 Atlanta, GA 30308
 Phone/Fax:³ 404-506-7239
 Contact:⁴ Joju Abraham
 Project Location:⁵ Plant Scherer
 Account Number:⁶ _____
 Special Instructions:⁷ Scherer AP CCR GW

LAB USE ONLY LAB ID	Sample Number ¹⁴	Collection ¹⁵		Sample Description ¹⁶	Sample Type	Matrix	No. of Containers	PRESERVATIVE ²⁰			ANALYSIS REQUESTED ²¹	Sample Type Key: ²²			LAB USE ONLY ²⁵ Comments	
		Date	Time					HNO3	Ice	HNO3		0-Die	0-Other	0-Composite		
	56XIC-6	6/27/16	1109		G	GW	3	EPA 6020 & EPA 7470 Metals app. III & IV								
	56XIC-8	6/27/16	1455		G	GW	3	CI, F, SO4 EPA 300 TDS SM2540C Radium 226/228 SW-846 9315 & 9320								4 5

Signature: [Signature]
 Authorization to subcontract analysis and be assumed acceptable by customer unless stated otherwise

Relinquished by:²⁶ [Signature] Date/Time: 6/28/16 0707
 Received by:²⁷ [Signature] Date/Time: 6/28/16 0807
 Relinquished by: [Signature] Date/Time: 6/28/16 0819
 Received by: [Signature] Date/Time: 6/28/16 2:30

Adelman, 06/28/16, ice, 1-c
Intact, 4 p, pcc courier

LAB USE ONLY: Sample Receipt Information²⁸



PACE ANALYTICAL SERVICES, INC.

Environmental Monitoring & Laboratory Analysis
110 Technology Parkway, Peachtree Corners, GA 30092
(770) 734-4200 FAX (770) 734-4201

LOG-IN CHECKLIST

Printed: 7/5/2016 3:49:25PM

Attn: Mr. Joju Abraham

Client: Georgia Power

Project: CCR Event

Date Received: 06/28/16 12:00

Work Order: AZF1000

Logged In By: Mohammad M. Rahman

OBSERVATIONS

#Samples: 5

#Containers: 15

Minimum Temp(C): 2.0

Maximum Temp(C): 2.0

Custody Seal(s) Used: Yes

CHECKLIST ITEMS

COC included with Samples	YES
Sample Container(s) Intact	YES
Chain of Custody Complete	YES
Sample Container(s) Match COC	YES
Custody seal Intact	YES
Temperature in Compliance	YES
Sufficient Sample Volume for Analysis	YES
Zero Headspace Maintained for VOA Analyses	YES
Samples labeled preserved (If Applicable)	YES
Samples received within Allowable Hold Times	YES
Samples Received on Ice	YES
Preservation Confirmed	YES

Comments:



PACE ANALYTICAL SERVICES, INC.

Environmental Monitoring & Laboratory Analysis
110 Technology Parkway, Peachtree Corners, GA 30092
(770) 734-4200 FAX (770) 734-4201

Laboratory Report

Prepared For:

**Georgia Power
2480 Maner Road
Atlanta, GA 30339**

Attention: Mr. Joju Abraham

Report Number: AZF1093

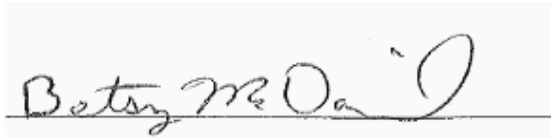
July 08, 2016

Project: CCR Event

Project #: Plant Scherer

We appreciate the opportunity to provide the analytical support for your project. The analytical results in this report are based upon information supplied by you, the client, and are for your exclusive use. If you have any questions regarding this data package, please do not hesitate to call.

Approved:



Project Manager

This report may not be reproduced, except in full, without written approval from Pace Analytical Services, Inc.
All test results relate only to the samples analyzed.



PACE ANALYTICAL SERVICES, INC.

Environmental Monitoring & Laboratory Analysis
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(770) 734-4200 FAX (770) 734-4201

Georgia Power
2480 Maner Road
Atlanta GA, 30339

Attention: Mr. Joju Abraham

July 08, 2016

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
SGWC-10	AZF1093-01	Ground Water	06/28/16 08:29	06/29/16 17:05
SGWC-13	AZF1093-02	Ground Water	06/28/16 11:05	06/29/16 17:05
SGWC-16	AZF1093-03	Ground Water	06/28/16 13:45	06/29/16 17:05
FB-6	AZF1093-04	DI Water	06/28/16 13:58	06/29/16 17:05
SGWC-12	AZF1093-05	Ground Water	06/28/16 09:18	06/29/16 17:05
SGWC-15	AZF1093-06	Ground Water	06/28/16 13:55	06/29/16 17:05
EQB-6	AZF1093-07	DI Water	06/28/16 14:45	06/29/16 17:05
SGWC-11	AZF1093-08	Ground Water	06/28/16 09:36	06/29/16 17:05
SGWC-14	AZF1093-09	Ground Water	06/28/16 13:32	06/29/16 17:05
Dup-6	AZF1093-10	Ground Water	06/28/16 00:00	06/29/16 17:05



PACE ANALYTICAL SERVICES, INC.

Environmental Monitoring & Laboratory Analysis
 110 Technology Parkway, Peachtree Corners, GA 30092
 (770) 734-4200 FAX (770) 734-4201

Georgia Power
 2480 Maner Road
 Atlanta GA, 30339

Attention: Mr. Joju Abraham

July 08, 2016

Report No.: AZF1093

Project: CCR Event

Client ID: SGWC-10

Lab Number ID: AZF1093-01

Date/Time Sampled: 6/28/2016 8:29:00AM

Date/Time Received: 6/29/2016 5:05:00PM

Matrix: Ground Water

Analyte	Result	RL	MDL	Units	Method	Qual.	DF	Preparation Date	Analytical Date	Batch	Init.
General Chemistry											
Total Dissolved Solids	41	25	10	mg/L	SM 2540 C		1	06/30/16 19:40	06/30/16 19:40	6060768	JPT
Inorganic Anions											
Chloride	9.1	0.25	0.01	mg/L	EPA 300.0	B-01	1	07/05/16 10:39	07/05/16 13:40	6070056	RLC
Fluoride	ND	0.30	0.02	mg/L	EPA 300.0		1	07/05/16 10:39	07/05/16 13:40	6070056	RLC
Sulfate	6.3	1.0	0.05	mg/L	EPA 300.0		1	07/05/16 10:39	07/05/16 13:40	6070056	RLC
Metals, Total											
Antimony	0.0014	0.0030	0.0002	mg/L	EPA 6020B	J	1	07/01/16 08:45	07/01/16 16:31	6060788	KLH
Arsenic	ND	0.0050	0.0007	mg/L	EPA 6020B		1	07/01/16 08:45	07/01/16 16:31	6060788	KLH
Barium	0.0293	0.0100	0.0003	mg/L	EPA 6020B		1	07/01/16 08:45	07/01/16 16:31	6060788	KLH
Beryllium	ND	0.0030	0.00009	mg/L	EPA 6020B		1	07/01/16 08:45	07/01/16 16:31	6060788	KLH
Boron	0.0350	0.100	0.0044	mg/L	EPA 6020B	J	1	07/01/16 08:45	07/01/16 16:31	6060788	KLH
Cadmium	ND	0.0010	0.0001	mg/L	EPA 6020B		1	07/01/16 08:45	07/01/16 16:31	6060788	KLH
Calcium	3.13	0.500	0.0126	mg/L	EPA 6020B	B-01	1	07/01/16 08:45	07/01/16 16:31	6060788	KLH
Chromium	ND	0.0100	0.0004	mg/L	EPA 6020B		1	07/01/16 08:45	07/01/16 16:31	6060788	KLH
Cobalt	0.0192	0.0100	0.0003	mg/L	EPA 6020B		1	07/01/16 08:45	07/01/16 16:31	6060788	KLH
Lead	ND	0.0050	0.00008	mg/L	EPA 6020B		1	07/01/16 08:45	07/01/16 16:31	6060788	KLH
Molybdenum	ND	0.0100	0.0005	mg/L	EPA 6020B		1	07/01/16 08:45	07/01/16 16:31	6060788	KLH
Selenium	ND	0.0100	0.0009	mg/L	EPA 6020B		1	07/01/16 08:45	07/01/16 16:31	6060788	KLH
Thallium	0.0001	0.0010	0.00006	mg/L	EPA 6020B	J	1	07/01/16 08:45	07/01/16 16:31	6060788	KLH
Lithium	ND	0.0500	0.0012	mg/L	EPA 6020B		1	07/01/16 08:45	07/01/16 16:31	6060788	KLH
Mercury	ND	0.00050	0.00013	mg/L	EPA 7470A		1	06/30/16 14:45	07/01/16 15:07	6060755	CSW



PACE ANALYTICAL SERVICES, INC.

Environmental Monitoring & Laboratory Analysis
 110 Technology Parkway, Peachtree Corners, GA 30092
 (770) 734-4200 FAX (770) 734-4201

Georgia Power
 2480 Maner Road
 Atlanta GA, 30339

Attention: Mr. Joju Abraham

July 08, 2016

Report No.: AZF1093

Project: CCR Event

Client ID: SGWC-13

Lab Number ID: AZF1093-02

Date/Time Sampled: 6/28/2016 11:05:00AM

Date/Time Received: 6/29/2016 5:05:00PM

Matrix: Ground Water

Analyte	Result	RL	MDL	Units	Method	Qual.	DF	Preparation Date	Analytical Date	Batch	Init.
General Chemistry											
Total Dissolved Solids	198	25	10	mg/L	SM 2540 C		1	07/05/16 16:55	07/05/16 16:55	6070053	JPT
Inorganic Anions											
Chloride	5.4	0.25	0.01	mg/L	EPA 300.0	B-01	1	07/05/16 10:39	07/05/16 14:01	6070056	RLC
Fluoride	0.15	0.30	0.02	mg/L	EPA 300.0	J	1	07/05/16 10:39	07/05/16 14:01	6070056	RLC
Sulfate	76	2.0	0.10	mg/L	EPA 300.0		2	07/05/16 10:39	07/06/16 00:21	6070056	RLC
Metals, Total											
Antimony	0.0004	0.0030	0.0002	mg/L	EPA 6020B	J	1	07/01/16 08:45	07/01/16 16:36	6060788	KLH
Arsenic	ND	0.0050	0.0007	mg/L	EPA 6020B		1	07/01/16 08:45	07/01/16 16:36	6060788	KLH
Barium	0.0208	0.0100	0.0003	mg/L	EPA 6020B		1	07/01/16 08:45	07/01/16 16:36	6060788	KLH
Beryllium	ND	0.0030	0.00009	mg/L	EPA 6020B		1	07/01/16 08:45	07/01/16 16:36	6060788	KLH
Boron	0.520	0.100	0.0044	mg/L	EPA 6020B		1	07/01/16 08:45	07/01/16 16:36	6060788	KLH
Cadmium	ND	0.0010	0.0001	mg/L	EPA 6020B		1	07/01/16 08:45	07/01/16 16:36	6060788	KLH
Calcium	14.4	2.50	0.0628	mg/L	EPA 6020B	B-01	5	07/01/16 08:45	07/05/16 14:46	6060788	KLH
Chromium	ND	0.0100	0.0004	mg/L	EPA 6020B		1	07/01/16 08:45	07/01/16 16:36	6060788	KLH
Cobalt	0.0110	0.0100	0.0003	mg/L	EPA 6020B		1	07/01/16 08:45	07/01/16 16:36	6060788	KLH
Lead	ND	0.0050	0.00008	mg/L	EPA 6020B		1	07/01/16 08:45	07/01/16 16:36	6060788	KLH
Molybdenum	ND	0.0100	0.0005	mg/L	EPA 6020B		1	07/01/16 08:45	07/01/16 16:36	6060788	KLH
Selenium	ND	0.0100	0.0009	mg/L	EPA 6020B		1	07/01/16 08:45	07/01/16 16:36	6060788	KLH
Thallium	ND	0.0010	0.00006	mg/L	EPA 6020B		1	07/01/16 08:45	07/01/16 16:36	6060788	KLH
Lithium	ND	0.0500	0.0012	mg/L	EPA 6020B		1	07/01/16 08:45	07/01/16 16:36	6060788	KLH
Mercury	ND	0.00050	0.00013	mg/L	EPA 7470A		1	06/30/16 14:45	07/01/16 15:09	6060755	CSW



PACE ANALYTICAL SERVICES, INC.

Environmental Monitoring & Laboratory Analysis
 110 Technology Parkway, Peachtree Corners, GA 30092
 (770) 734-4200 FAX (770) 734-4201

Georgia Power
 2480 Maner Road
 Atlanta GA, 30339

Attention: Mr. Joju Abraham

July 08, 2016

Report No.: AZF1093

Project: CCR Event

Client ID: SGWC-16

Lab Number ID: AZF1093-03

Date/Time Sampled: 6/28/2016 1:45:00PM

Date/Time Received: 6/29/2016 5:05:00PM

Matrix: Ground Water

Analyte	Result	RL	MDL	Units	Method	Qual.	DF	Preparation Date	Analytical Date	Batch	Init.
General Chemistry											
Total Dissolved Solids	60	25	10	mg/L	SM 2540 C		1	06/30/16 19:40	06/30/16 19:40	6060768	JPT
Inorganic Anions											
Chloride	7.8	0.25	0.01	mg/L	EPA 300.0	B-01	1	07/05/16 10:39	07/05/16 15:03	6070056	RLC
Fluoride	0.09	0.30	0.02	mg/L	EPA 300.0	J	1	07/05/16 10:39	07/05/16 15:03	6070056	RLC
Sulfate	11	1.0	0.05	mg/L	EPA 300.0		1	07/05/16 10:39	07/05/16 15:03	6070056	RLC
Metals, Total											
Antimony	ND	0.0030	0.0002	mg/L	EPA 6020B		1	07/01/16 08:45	07/01/16 16:41	6060788	KLH
Arsenic	ND	0.0050	0.0007	mg/L	EPA 6020B		1	07/01/16 08:45	07/01/16 16:41	6060788	KLH
Barium	0.0165	0.0100	0.0003	mg/L	EPA 6020B		1	07/01/16 08:45	07/01/16 16:41	6060788	KLH
Beryllium	ND	0.0030	0.00009	mg/L	EPA 6020B		1	07/01/16 08:45	07/01/16 16:41	6060788	KLH
Boron	0.546	0.100	0.0044	mg/L	EPA 6020B		1	07/01/16 08:45	07/01/16 16:41	6060788	KLH
Cadmium	ND	0.0010	0.0001	mg/L	EPA 6020B		1	07/01/16 08:45	07/01/16 16:41	6060788	KLH
Calcium	0.768	0.500	0.0126	mg/L	EPA 6020B	B-01	1	07/01/16 08:45	07/01/16 16:41	6060788	KLH
Chromium	0.0093	0.0100	0.0004	mg/L	EPA 6020B	J	1	07/01/16 08:45	07/01/16 16:41	6060788	KLH
Cobalt	0.0029	0.0100	0.0003	mg/L	EPA 6020B	J	1	07/01/16 08:45	07/01/16 16:41	6060788	KLH
Lead	ND	0.0050	0.00008	mg/L	EPA 6020B		1	07/01/16 08:45	07/01/16 16:41	6060788	KLH
Molybdenum	ND	0.0100	0.0005	mg/L	EPA 6020B		1	07/01/16 08:45	07/01/16 16:41	6060788	KLH
Selenium	ND	0.0100	0.0009	mg/L	EPA 6020B		1	07/01/16 08:45	07/01/16 16:41	6060788	KLH
Thallium	ND	0.0010	0.00006	mg/L	EPA 6020B		1	07/01/16 08:45	07/01/16 16:41	6060788	KLH
Lithium	ND	0.0500	0.0012	mg/L	EPA 6020B		1	07/01/16 08:45	07/01/16 16:41	6060788	KLH
Mercury	ND	0.00050	0.00013	mg/L	EPA 7470A		1	06/30/16 14:45	07/01/16 15:12	6060755	CSW



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Environmental Monitoring & Laboratory Analysis
 110 Technology Parkway, Peachtree Corners, GA 30092
 (770) 734-4200 FAX (770) 734-4201

Georgia Power
 2480 Maner Road
 Atlanta GA, 30339

Attention: Mr. Joju Abraham

July 08, 2016

Report No.: AZF1093

Project: CCR Event

Client ID: FB-6

Lab Number ID: AZF1093-04

Date/Time Sampled: 6/28/2016 1:58:00PM

Date/Time Received: 6/29/2016 5:05:00PM

Matrix: DI Water

Analyte	Result	RL	MDL	Units	Method	Qual.	DF	Preparation Date	Analytical Date	Batch	Init.
General Chemistry											
Total Dissolved Solids	ND	25	10	mg/L	SM 2540 C		1	07/05/16 16:55	07/05/16 16:55	6070053	JPT
Inorganic Anions											
Chloride	0.03	0.25	0.01	mg/L	EPA 300.0	B-01, J	1	07/05/16 10:39	07/05/16 15:24	6070056	RLC
Fluoride	ND	0.30	0.02	mg/L	EPA 300.0		1	07/05/16 10:39	07/05/16 15:24	6070056	RLC
Sulfate	0.08	1.0	0.05	mg/L	EPA 300.0	J	1	07/05/16 10:39	07/05/16 15:24	6070056	RLC
Metals, Total											
Antimony	ND	0.0030	0.0002	mg/L	EPA 6020B		1	07/01/16 08:45	07/01/16 16:46	6060788	KLH
Arsenic	ND	0.0050	0.0007	mg/L	EPA 6020B		1	07/01/16 08:45	07/01/16 16:46	6060788	KLH
Barium	ND	0.0100	0.0003	mg/L	EPA 6020B		1	07/01/16 08:45	07/01/16 16:46	6060788	KLH
Beryllium	ND	0.0030	0.00009	mg/L	EPA 6020B		1	07/01/16 08:45	07/01/16 16:46	6060788	KLH
Boron	0.0047	0.100	0.0044	mg/L	EPA 6020B	J	1	07/01/16 08:45	07/01/16 16:46	6060788	KLH
Cadmium	ND	0.0010	0.0001	mg/L	EPA 6020B		1	07/01/16 08:45	07/01/16 16:46	6060788	KLH
Calcium	0.0193	0.500	0.0126	mg/L	EPA 6020B	B-01, J	1	07/01/16 08:45	07/01/16 16:46	6060788	KLH
Chromium	ND	0.0100	0.0004	mg/L	EPA 6020B		1	07/01/16 08:45	07/01/16 16:46	6060788	KLH
Cobalt	ND	0.0100	0.0003	mg/L	EPA 6020B		1	07/01/16 08:45	07/01/16 16:46	6060788	KLH
Lead	ND	0.0050	0.00008	mg/L	EPA 6020B		1	07/01/16 08:45	07/01/16 16:46	6060788	KLH
Molybdenum	ND	0.0100	0.0005	mg/L	EPA 6020B		1	07/01/16 08:45	07/01/16 16:46	6060788	KLH
Selenium	ND	0.0100	0.0009	mg/L	EPA 6020B		1	07/01/16 08:45	07/01/16 16:46	6060788	KLH
Thallium	ND	0.0010	0.00006	mg/L	EPA 6020B		1	07/01/16 08:45	07/01/16 16:46	6060788	KLH
Lithium	ND	0.0500	0.0012	mg/L	EPA 6020B		1	07/01/16 08:45	07/01/16 16:46	6060788	KLH
Mercury	ND	0.00050	0.00013	mg/L	EPA 7470A		1	06/30/16 14:45	07/01/16 15:14	6060755	CSW



PACE ANALYTICAL SERVICES, INC.

Environmental Monitoring & Laboratory Analysis
 110 Technology Parkway, Peachtree Corners, GA 30092
 (770) 734-4200 FAX (770) 734-4201

Georgia Power
 2480 Maner Road
 Atlanta GA, 30339

Attention: Mr. Joju Abraham

July 08, 2016

Report No.: AZF1093

Project: CCR Event

Client ID: SGWC-12

Lab Number ID: AZF1093-05

Date/Time Sampled: 6/28/2016 9:18:00AM

Date/Time Received: 6/29/2016 5:05:00PM

Matrix: Ground Water

Analyte	Result	RL	MDL	Units	Method	Qual.	DF	Preparation Date	Analytical Date	Batch	Init.
General Chemistry											
Total Dissolved Solids	200	25	10	mg/L	SM 2540 C		1	06/30/16 19:40	06/30/16 19:40	6060768	JPT
Inorganic Anions											
Chloride	8.8	0.25	0.01	mg/L	EPA 300.0	B-01	1	07/05/16 10:39	07/05/16 15:44	6070056	RLC
Fluoride	0.18	0.30	0.02	mg/L	EPA 300.0	J	1	07/05/16 10:39	07/05/16 15:44	6070056	RLC
Sulfate	25	1.0	0.05	mg/L	EPA 300.0		1	07/05/16 10:39	07/05/16 15:44	6070056	RLC
Metals, Total											
Antimony	ND	0.0030	0.0002	mg/L	EPA 6020B		1	07/01/16 08:45	07/01/16 16:51	6060788	KLH
Arsenic	0.0010	0.0050	0.0007	mg/L	EPA 6020B	J	1	07/01/16 08:45	07/01/16 16:51	6060788	KLH
Barium	0.0321	0.0100	0.0003	mg/L	EPA 6020B		1	07/01/16 08:45	07/01/16 16:51	6060788	KLH
Beryllium	ND	0.0030	0.00009	mg/L	EPA 6020B		1	07/01/16 08:45	07/01/16 16:51	6060788	KLH
Boron	0.0054	0.100	0.0044	mg/L	EPA 6020B	J	1	07/01/16 08:45	07/01/16 16:51	6060788	KLH
Cadmium	ND	0.0010	0.0001	mg/L	EPA 6020B		1	07/01/16 08:45	07/01/16 16:51	6060788	KLH
Calcium	21.0	2.50	0.0628	mg/L	EPA 6020B	B-01	5	07/01/16 08:45	07/05/16 14:52	6060788	KLH
Chromium	ND	0.0100	0.0004	mg/L	EPA 6020B		1	07/01/16 08:45	07/01/16 16:51	6060788	KLH
Cobalt	0.0051	0.0100	0.0003	mg/L	EPA 6020B	J	1	07/01/16 08:45	07/01/16 16:51	6060788	KLH
Lead	ND	0.0050	0.00008	mg/L	EPA 6020B		1	07/01/16 08:45	07/01/16 16:51	6060788	KLH
Molybdenum	0.0012	0.0100	0.0005	mg/L	EPA 6020B	J	1	07/01/16 08:45	07/01/16 16:51	6060788	KLH
Selenium	ND	0.0100	0.0009	mg/L	EPA 6020B		1	07/01/16 08:45	07/01/16 16:51	6060788	KLH
Thallium	ND	0.0010	0.00006	mg/L	EPA 6020B		1	07/01/16 08:45	07/01/16 16:51	6060788	KLH
Lithium	ND	0.0500	0.0012	mg/L	EPA 6020B		1	07/01/16 08:45	07/01/16 16:51	6060788	KLH
Mercury	ND	0.00050	0.00013	mg/L	EPA 7470A		1	06/30/16 14:45	07/01/16 15:16	6060755	CSW



PACE ANALYTICAL SERVICES, INC.

Environmental Monitoring & Laboratory Analysis
 110 Technology Parkway, Peachtree Corners, GA 30092
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Georgia Power
 2480 Maner Road
 Atlanta GA, 30339

Attention: Mr. Joju Abraham

July 08, 2016

Report No.: AZF1093

Project: CCR Event

Client ID: SGWC-15

Lab Number ID: AZF1093-06

Date/Time Sampled: 6/28/2016 1:55:00PM

Date/Time Received: 6/29/2016 5:05:00PM

Matrix: Ground Water

Analyte	Result	RL	MDL	Units	Method	Qual.	DF	Preparation Date	Analytical Date	Batch	Init.
General Chemistry											
Total Dissolved Solids	337	25	10	mg/L	SM 2540 C		1	06/30/16 19:40	06/30/16 19:40	6060768	JPT
Inorganic Anions											
Chloride	9.8	0.25	0.01	mg/L	EPA 300.0	B-01	1	07/05/16 10:39	07/05/16 16:05	6070056	RLC
Fluoride	0.26	0.30	0.02	mg/L	EPA 300.0	J	1	07/05/16 10:39	07/05/16 16:05	6070056	RLC
Sulfate	200	5.0	0.26	mg/L	EPA 300.0		5	07/05/16 10:39	07/06/16 04:29	6070056	RLC
Metals, Total											
Antimony	ND	0.0030	0.0002	mg/L	EPA 6020B		1	07/01/16 08:45	07/01/16 17:10	6060788	KLH
Arsenic	0.0026	0.0050	0.0007	mg/L	EPA 6020B	J	1	07/01/16 08:45	07/01/16 17:10	6060788	KLH
Barium	0.0435	0.0100	0.0003	mg/L	EPA 6020B		1	07/01/16 08:45	07/01/16 17:10	6060788	KLH
Beryllium	0.0003	0.0030	0.00009	mg/L	EPA 6020B	J	1	07/01/16 08:45	07/01/16 17:10	6060788	KLH
Boron	1.36	0.100	0.0044	mg/L	EPA 6020B		1	07/01/16 08:45	07/01/16 17:10	6060788	KLH
Cadmium	0.0003	0.0010	0.0001	mg/L	EPA 6020B	J	1	07/01/16 08:45	07/01/16 17:10	6060788	KLH
Calcium	14.7	2.50	0.0628	mg/L	EPA 6020B	B-01	5	07/01/16 08:45	07/05/16 14:58	6060788	KLH
Chromium	0.0339	0.0100	0.0004	mg/L	EPA 6020B		1	07/01/16 08:45	07/01/16 17:10	6060788	KLH
Cobalt	0.255	0.0100	0.0003	mg/L	EPA 6020B		1	07/01/16 08:45	07/01/16 17:10	6060788	KLH
Lead	ND	0.0050	0.00008	mg/L	EPA 6020B		1	07/01/16 08:45	07/01/16 17:10	6060788	KLH
Molybdenum	ND	0.0100	0.0005	mg/L	EPA 6020B		1	07/01/16 08:45	07/01/16 17:10	6060788	KLH
Selenium	0.0101	0.0100	0.0009	mg/L	EPA 6020B		1	07/01/16 08:45	07/01/16 17:10	6060788	KLH
Thallium	0.00009	0.0010	0.00006	mg/L	EPA 6020B	J	1	07/01/16 08:45	07/01/16 17:10	6060788	KLH
Lithium	0.0024	0.0500	0.0012	mg/L	EPA 6020B	J	1	07/01/16 08:45	07/01/16 17:10	6060788	KLH
Mercury	ND	0.00050	0.00013	mg/L	EPA 7470A		1	06/30/16 14:45	07/01/16 15:25	6060755	CSW



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 Atlanta GA, 30339

Attention: Mr. Joju Abraham

July 08, 2016

Report No.: AZF1093

Project: CCR Event

Client ID: EQB-6

Lab Number ID: AZF1093-07

Date/Time Sampled: 6/28/2016 2:45:00PM

Date/Time Received: 6/29/2016 5:05:00PM

Matrix: DI Water

Analyte	Result	RL	MDL	Units	Method	Qual.	DF	Preparation Date	Analytical Date	Batch	Init.
General Chemistry											
Total Dissolved Solids	ND	25	10	mg/L	SM 2540 C		1	06/30/16 19:40	06/30/16 19:40	6060768	JPT
Inorganic Anions											
Chloride	0.02	0.25	0.01	mg/L	EPA 300.0	B-01, J	1	07/05/16 10:39	07/05/16 16:26	6070056	RLC
Fluoride	ND	0.30	0.02	mg/L	EPA 300.0		1	07/05/16 10:39	07/05/16 16:26	6070056	RLC
Sulfate	0.11	1.0	0.05	mg/L	EPA 300.0	J	1	07/05/16 10:39	07/05/16 16:26	6070056	RLC
Metals, Total											
Antimony	ND	0.0030	0.0002	mg/L	EPA 6020B		1	07/01/16 08:45	07/01/16 17:15	6060788	KLH
Arsenic	ND	0.0050	0.0007	mg/L	EPA 6020B		1	07/01/16 08:45	07/01/16 17:15	6060788	KLH
Barium	ND	0.0100	0.0003	mg/L	EPA 6020B		1	07/01/16 08:45	07/01/16 17:15	6060788	KLH
Beryllium	ND	0.0030	0.00009	mg/L	EPA 6020B		1	07/01/16 08:45	07/01/16 17:15	6060788	KLH
Boron	0.0060	0.100	0.0044	mg/L	EPA 6020B	J	1	07/01/16 08:45	07/01/16 17:15	6060788	KLH
Cadmium	ND	0.0010	0.0001	mg/L	EPA 6020B		1	07/01/16 08:45	07/01/16 17:15	6060788	KLH
Calcium	0.0327	0.500	0.0126	mg/L	EPA 6020B	B-01, J	1	07/01/16 08:45	07/01/16 17:15	6060788	KLH
Chromium	ND	0.0100	0.0004	mg/L	EPA 6020B		1	07/01/16 08:45	07/01/16 17:15	6060788	KLH
Cobalt	ND	0.0100	0.0003	mg/L	EPA 6020B		1	07/01/16 08:45	07/01/16 17:15	6060788	KLH
Lead	ND	0.0050	0.00008	mg/L	EPA 6020B		1	07/01/16 08:45	07/01/16 17:15	6060788	KLH
Molybdenum	ND	0.0100	0.0005	mg/L	EPA 6020B		1	07/01/16 08:45	07/01/16 17:15	6060788	KLH
Selenium	ND	0.0100	0.0009	mg/L	EPA 6020B		1	07/01/16 08:45	07/01/16 17:15	6060788	KLH
Thallium	ND	0.0010	0.00006	mg/L	EPA 6020B		1	07/01/16 08:45	07/01/16 17:15	6060788	KLH
Lithium	ND	0.0500	0.0012	mg/L	EPA 6020B		1	07/01/16 08:45	07/01/16 17:15	6060788	KLH
Mercury	ND	0.00050	0.00013	mg/L	EPA 7470A		1	06/30/16 14:45	07/01/16 15:27	6060755	CSW



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 Atlanta GA, 30339

Attention: Mr. Joju Abraham

July 08, 2016

Report No.: AZF1093

Project: CCR Event

Client ID: SGWC-11

Lab Number ID: AZF1093-08

Date/Time Sampled: 6/28/2016 9:36:00AM

Date/Time Received: 6/29/2016 5:05:00PM

Matrix: Ground Water

Analyte	Result	RL	MDL	Units	Method	Qual.	DF	Preparation Date	Analytical Date	Batch	Init.
General Chemistry											
Total Dissolved Solids	134	25	10	mg/L	SM 2540 C		1	06/30/16 19:40	06/30/16 19:40	6060768	JPT
Inorganic Anions											
Chloride	8.3	0.25	0.01	mg/L	EPA 300.0	B-01	1	07/05/16 10:39	07/05/16 18:09	6070056	RLC
Fluoride	0.08	0.30	0.02	mg/L	EPA 300.0	J	1	07/05/16 10:39	07/05/16 18:09	6070056	RLC
Sulfate	3.7	1.0	0.05	mg/L	EPA 300.0		1	07/05/16 10:39	07/05/16 18:09	6070056	RLC
Metals, Total											
Antimony	ND	0.0030	0.0002	mg/L	EPA 6020B		1	07/01/16 08:45	07/01/16 17:20	6060788	KLH
Arsenic	0.0011	0.0050	0.0007	mg/L	EPA 6020B	J	1	07/01/16 08:45	07/01/16 17:20	6060788	KLH
Barium	0.0363	0.0100	0.0003	mg/L	EPA 6020B		1	07/01/16 08:45	07/01/16 17:20	6060788	KLH
Beryllium	ND	0.0030	0.00009	mg/L	EPA 6020B		1	07/01/16 08:45	07/01/16 17:20	6060788	KLH
Boron	0.245	0.100	0.0044	mg/L	EPA 6020B		1	07/01/16 08:45	07/01/16 17:20	6060788	KLH
Cadmium	ND	0.0010	0.0001	mg/L	EPA 6020B		1	07/01/16 08:45	07/01/16 17:20	6060788	KLH
Calcium	2.19	0.500	0.0126	mg/L	EPA 6020B	B-01	1	07/01/16 08:45	07/01/16 17:20	6060788	KLH
Chromium	ND	0.0100	0.0004	mg/L	EPA 6020B		1	07/01/16 08:45	07/01/16 17:20	6060788	KLH
Cobalt	0.0332	0.0100	0.0003	mg/L	EPA 6020B		1	07/01/16 08:45	07/01/16 17:20	6060788	KLH
Lead	ND	0.0050	0.00008	mg/L	EPA 6020B		1	07/01/16 08:45	07/01/16 17:20	6060788	KLH
Molybdenum	ND	0.0100	0.0005	mg/L	EPA 6020B		1	07/01/16 08:45	07/01/16 17:20	6060788	KLH
Selenium	ND	0.0100	0.0009	mg/L	EPA 6020B		1	07/01/16 08:45	07/01/16 17:20	6060788	KLH
Thallium	ND	0.0010	0.00006	mg/L	EPA 6020B		1	07/01/16 08:45	07/01/16 17:20	6060788	KLH
Lithium	0.0013	0.0500	0.0012	mg/L	EPA 6020B	J	1	07/01/16 08:45	07/01/16 17:20	6060788	KLH
Mercury	ND	0.00050	0.00013	mg/L	EPA 7470A		1	06/30/16 14:45	07/01/16 15:29	6060755	CSW



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 Atlanta GA, 30339

Attention: Mr. Joju Abraham

July 08, 2016

Report No.: AZF1093

Project: CCR Event

Client ID: SGWC-14

Lab Number ID: AZF1093-09

Date/Time Sampled: 6/28/2016 1:32:00PM

Date/Time Received: 6/29/2016 5:05:00PM

Matrix: Ground Water

Analyte	Result	RL	MDL	Units	Method	Qual.	DF	Preparation Date	Analytical Date	Batch	Init.
General Chemistry											
Total Dissolved Solids	333	25	10	mg/L	SM 2540 C		1	06/30/16 19:40	06/30/16 19:40	6060768	JPT
Inorganic Anions											
Chloride	10	0.25	0.01	mg/L	EPA 300.0	B-01	1	07/05/16 10:39	07/05/16 18:30	6070056	RLC
Fluoride	0.03	0.30	0.02	mg/L	EPA 300.0	J	1	07/05/16 10:39	07/05/16 18:30	6070056	RLC
Sulfate	200	5.0	0.26	mg/L	EPA 300.0		5	07/05/16 10:39	07/06/16 04:50	6070056	RLC
Metals, Total											
Antimony	ND	0.0030	0.0002	mg/L	EPA 6020B		1	07/01/16 08:45	07/01/16 17:25	6060788	KLH
Arsenic	ND	0.0050	0.0007	mg/L	EPA 6020B		1	07/01/16 08:45	07/01/16 17:25	6060788	KLH
Barium	0.0668	0.0100	0.0003	mg/L	EPA 6020B		1	07/01/16 08:45	07/01/16 17:25	6060788	KLH
Beryllium	ND	0.0030	0.00009	mg/L	EPA 6020B		1	07/01/16 08:45	07/01/16 17:25	6060788	KLH
Boron	1.29	0.100	0.0044	mg/L	EPA 6020B		1	07/01/16 08:45	07/01/16 17:25	6060788	KLH
Cadmium	ND	0.0010	0.0001	mg/L	EPA 6020B		1	07/01/16 08:45	07/01/16 17:25	6060788	KLH
Calcium	35.8	2.50	0.0628	mg/L	EPA 6020B	B-01	5	07/01/16 08:45	07/05/16 15:04	6060788	KLH
Chromium	0.0008	0.0100	0.0004	mg/L	EPA 6020B	J	1	07/01/16 08:45	07/01/16 17:25	6060788	KLH
Cobalt	0.0115	0.0100	0.0003	mg/L	EPA 6020B		1	07/01/16 08:45	07/01/16 17:25	6060788	KLH
Lead	ND	0.0050	0.00008	mg/L	EPA 6020B		1	07/01/16 08:45	07/01/16 17:25	6060788	KLH
Molybdenum	ND	0.0100	0.0005	mg/L	EPA 6020B		1	07/01/16 08:45	07/01/16 17:25	6060788	KLH
Selenium	ND	0.0100	0.0009	mg/L	EPA 6020B		1	07/01/16 08:45	07/01/16 17:25	6060788	KLH
Thallium	ND	0.0010	0.00006	mg/L	EPA 6020B		1	07/01/16 08:45	07/01/16 17:25	6060788	KLH
Lithium	ND	0.0500	0.0012	mg/L	EPA 6020B		1	07/01/16 08:45	07/01/16 17:25	6060788	KLH
Mercury	ND	0.00050	0.00013	mg/L	EPA 7470A		1	06/30/16 14:45	07/01/16 15:32	6060755	CSW



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 2480 Maner Road
 Atlanta GA, 30339

Attention: Mr. Joju Abraham

July 08, 2016

Report No.: AZF1093

Project: CCR Event

Client ID: Dup-6

Lab Number ID: AZF1093-10

Date/Time Sampled: 6/28/2016 12:00:00AM

Date/Time Received: 6/29/2016 5:05:00PM

Matrix: Ground Water

Analyte	Result	RL	MDL	Units	Method	Qual.	DF	Preparation Date	Analytical Date	Batch	Init.
General Chemistry											
Total Dissolved Solids	99	25	10	mg/L	SM 2540 C		1	06/30/16 19:40	06/30/16 19:40	6060768	JPT
Inorganic Anions											
Chloride	8.2	0.25	0.01	mg/L	EPA 300.0	B-01	1	07/05/16 10:39	07/05/16 18:50	6070056	RLC
Fluoride	0.07	0.30	0.02	mg/L	EPA 300.0	J	1	07/05/16 10:39	07/05/16 18:50	6070056	RLC
Sulfate	3.6	1.0	0.05	mg/L	EPA 300.0		1	07/05/16 10:39	07/05/16 18:50	6070056	RLC
Metals, Total											
Antimony	ND	0.0030	0.0002	mg/L	EPA 6020B		1	07/01/16 08:45	07/01/16 17:30	6060788	KLH
Arsenic	0.0011	0.0050	0.0007	mg/L	EPA 6020B	J	1	07/01/16 08:45	07/01/16 17:30	6060788	KLH
Barium	0.0368	0.0100	0.0003	mg/L	EPA 6020B		1	07/01/16 08:45	07/01/16 17:30	6060788	KLH
Beryllium	ND	0.0030	0.00009	mg/L	EPA 6020B		1	07/01/16 08:45	07/01/16 17:30	6060788	KLH
Boron	0.250	0.100	0.0044	mg/L	EPA 6020B		1	07/01/16 08:45	07/01/16 17:30	6060788	KLH
Cadmium	ND	0.0010	0.0001	mg/L	EPA 6020B		1	07/01/16 08:45	07/01/16 17:30	6060788	KLH
Calcium	2.22	0.500	0.0126	mg/L	EPA 6020B	B-01	1	07/01/16 08:45	07/01/16 17:30	6060788	KLH
Chromium	ND	0.0100	0.0004	mg/L	EPA 6020B		1	07/01/16 08:45	07/01/16 17:30	6060788	KLH
Cobalt	0.0319	0.0100	0.0003	mg/L	EPA 6020B		1	07/01/16 08:45	07/01/16 17:30	6060788	KLH
Lead	ND	0.0050	0.00008	mg/L	EPA 6020B		1	07/01/16 08:45	07/01/16 17:30	6060788	KLH
Molybdenum	ND	0.0100	0.0005	mg/L	EPA 6020B		1	07/01/16 08:45	07/01/16 17:30	6060788	KLH
Selenium	ND	0.0100	0.0009	mg/L	EPA 6020B		1	07/01/16 08:45	07/01/16 17:30	6060788	KLH
Thallium	ND	0.0010	0.00006	mg/L	EPA 6020B		1	07/01/16 08:45	07/01/16 17:30	6060788	KLH
Lithium	ND	0.0500	0.0012	mg/L	EPA 6020B		1	07/01/16 08:45	07/01/16 17:30	6060788	KLH
Mercury	ND	0.00050	0.00013	mg/L	EPA 7470A		1	06/30/16 14:45	07/01/16 15:34	6060755	CSW



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Attention: Mr. Joju Abraham

July 08, 2016

Report No.: AZF1093

General Chemistry - Quality Control

Analyte	Result	RL	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 6060768 - SM 2540 C											
Blank (6060768-BLK1)						Prepared & Analyzed: 06/30/16					
Total Dissolved Solids	ND	25	10	mg/L							
LCS (6060768-BS1)						Prepared & Analyzed: 06/30/16					
Total Dissolved Solids	386	25	10	mg/L	400.00		96	84-108			
Duplicate (6060768-DUP1)						Source: AZF1093-04 Prepared & Analyzed: 06/30/16					
Total Dissolved Solids	14	25	10	mg/L		ND				10	J
Batch 6070053 - SM 2540 C											
Blank (6070053-BLK1)						Prepared & Analyzed: 07/05/16					
Total Dissolved Solids	ND	25	10	mg/L							
LCS (6070053-BS1)						Prepared & Analyzed: 07/05/16					
Total Dissolved Solids	399	25	10	mg/L	400.00		100	84-108			
Duplicate (6070053-DUP1)						Source: AZF1093-02RE1 Prepared & Analyzed: 07/05/16					
Total Dissolved Solids	195	25	10	mg/L		198			2	10	
Duplicate (6070053-DUP2)						Source: AZF1093-04RE1 Prepared & Analyzed: 07/05/16					
Total Dissolved Solids	ND	25	10	mg/L		ND				10	



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Attention: Mr. Joju Abraham

July 08, 2016

Report No.: AZF1093

Inorganic Anions - Quality Control

Analyte	Result	RL	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 6070056 - EPA 300.0											
Blank (6070056-BLK1)						Prepared & Analyzed: 07/05/16					
Chloride	0.04	0.25	0.01	mg/L							J
Fluoride	ND	0.10	0.02	mg/L							
Sulfate	ND	1.0	0.05	mg/L							
LCS (6070056-BS1)						Prepared & Analyzed: 07/05/16					
Chloride	9.60	1.0	0.01	mg/L	10.010		96	90-110			
Fluoride	10.1	0.10	0.02	mg/L	10.010		101	90-110			
Sulfate	9.78	5.0	0.05	mg/L	10.010		98	90-110			
Matrix Spike (6070056-MS1)						Source: AZF1093-02 Prepared & Analyzed: 07/05/16					
Chloride	15.0	1.0	0.01	mg/L	10.010	5.43	95	90-110			
Fluoride	10.3	0.10	0.02	mg/L	10.010	0.15	101	90-110			
Sulfate	76.7	5.0	0.05	mg/L	10.010	74.5	23	90-110			QM-05
Matrix Spike (6070056-MS2)						Source: AZF1167-01 Prepared & Analyzed: 07/05/16					
Chloride	19.7	1.0	0.01	mg/L	10.010	9.74	100	90-110			
Fluoride	10.6	0.10	0.02	mg/L	10.010	0.04	106	90-110			
Sulfate	84.4	5.0	0.05	mg/L	10.010	82.5	19	90-110			QM-05
Matrix Spike Dup (6070056-MSD1)						Source: AZF1093-02 Prepared & Analyzed: 07/05/16					
Chloride	15.0	1.0	0.01	mg/L	10.010	5.43	95	90-110	0.08	15	
Fluoride	10.4	0.10	0.02	mg/L	10.010	0.15	102	90-110	0.7	15	
Sulfate	76.8	5.0	0.05	mg/L	10.010	74.5	23	90-110	0.1	15	QM-05



PACE ANALYTICAL SERVICES, INC.

Environmental Monitoring & Laboratory Analysis
 110 Technology Parkway, Peachtree Corners, GA 30092
 (770) 734-4200 FAX (770) 734-4201

Georgia Power
 2480 Maner Road
 Atlanta GA, 30339

Attention: Mr. Joju Abraham

July 08, 2016

Report No.: AZF1093

Metals, Total - Quality Control

Analyte	Result	RL	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 6060755 - EPA 7470A											
Blank (6060755-BLK1)						Prepared: 06/30/16 Analyzed: 07/01/16					
Mercury	ND	0.00050	0.00013	mg/L							
LCS (6060755-BS1)						Prepared: 06/30/16 Analyzed: 07/01/16					
Mercury	0.00227	0.00050	0.00013	mg/L	2.5000E-3		91	80-120			
Matrix Spike (6060755-MS1)						Source: AZF1093-08			Prepared: 06/30/16 Analyzed: 07/01/16		
Mercury	0.00223	0.00050	0.00013	mg/L	2.5000E-3	ND	89	75-125			
Matrix Spike Dup (6060755-MSD1)						Source: AZF1093-08			Prepared: 06/30/16 Analyzed: 07/01/16		
Mercury	0.00227	0.00050	0.00013	mg/L	2.5000E-3	ND	91	75-125	2	20	
Post Spike (6060755-PS1)						Source: AZF1093-08			Prepared: 06/30/16 Analyzed: 07/01/16		
Mercury	1.48			ug/L	1.6667	-0.0146	90	80-120			
Batch 6060788 - EPA 3005A											
Blank (6060788-BLK1)						Prepared & Analyzed: 07/01/16					
Antimony	ND	0.0030	0.0002	mg/L							
Arsenic	ND	0.0050	0.0007	mg/L							
Barium	ND	0.0100	0.0003	mg/L							
Beryllium	ND	0.0030	0.00009	mg/L							
Boron	ND	0.100	0.0044	mg/L							
Cadmium	ND	0.0010	0.0001	mg/L							
Calcium	0.0159	0.500	0.0126	mg/L							J
Chromium	ND	0.0100	0.0004	mg/L							
Cobalt	ND	0.0100	0.0003	mg/L							
Copper	ND	0.0250	0.0004	mg/L							
Lead	ND	0.0050	0.00008	mg/L							
Molybdenum	ND	0.0100	0.0005	mg/L							
Nickel	ND	0.0050	0.0005	mg/L							
Selenium	ND	0.0050	0.0009	mg/L							
Silver	ND	0.0050	0.0002	mg/L							
Thallium	ND	0.0010	0.00006	mg/L							
Vanadium	ND	0.0100	0.0016	mg/L							
Zinc	ND	0.0100	0.0013	mg/L							
Lithium	ND	0.0500	0.0012	mg/L							



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 (770) 734-4200 FAX (770) 734-4201

Georgia Power
 2480 Maner Road
 Atlanta GA, 30339

Attention: Mr. Joju Abraham

July 08, 2016

Report No.: AZF1093

Metals, Total - Quality Control

Analyte	Result	RL	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 6060788 - EPA 3005A											
LCS (6060788-BS1)						Prepared & Analyzed: 07/01/16					
Antimony	0.103	0.0030	0.0002	mg/L	0.10000		103	80-120			
Arsenic	0.0978	0.0050	0.0007	mg/L	0.10000		98	80-120			
Barium	0.0971	0.0100	0.0003	mg/L	0.10000		97	80-120			
Beryllium	0.0908	0.0030	0.00009	mg/L	0.10000		91	80-120			
Boron	0.899	0.100	0.0044	mg/L	1.0000		90	80-120			
Cadmium	0.0954	0.0010	0.0001	mg/L	0.10000		95	80-120			
Calcium	0.996	0.500	0.0126	mg/L	1.0000		100	80-120			
Chromium	0.0963	0.0100	0.0004	mg/L	0.10000		96	80-120			
Cobalt	0.0939	0.0100	0.0003	mg/L	0.10000		94	80-120			
Copper	0.0939	0.0250	0.0004	mg/L	0.10000		94	80-120			
Lead	0.0938	0.0050	0.00008	mg/L	0.10000		94	80-120			
Molybdenum	0.101	0.0100	0.0005	mg/L	0.10000		101	80-120			
Nickel	0.0914	0.0050	0.0005	mg/L	0.10000		91	80-120			
Selenium	0.0989	0.0050	0.0009	mg/L	0.10000		99	80-120			
Silver	0.0975	0.0050	0.0002	mg/L	0.10000		98	80-120			
Thallium	0.0924	0.0010	0.00006	mg/L	0.10000		92	80-120			
Vanadium	0.0943	0.0100	0.0016	mg/L	0.10000		94	80-120			
Zinc	0.0960	0.0100	0.0013	mg/L	0.10000		96	80-120			
Lithium	0.0896	0.0500	0.0012	mg/L	0.10000		90	80-120			
Matrix Spike (6060788-MS1)						Source: AZF1093-10 Prepared & Analyzed: 07/01/16					
Antimony	0.0969	0.0030	0.0002	mg/L	0.10000	ND	97	75-125			
Arsenic	0.0972	0.0050	0.0007	mg/L	0.10000	0.0011	96	75-125			
Barium	0.140	0.0100	0.0003	mg/L	0.10000	0.0368	104	75-125			
Beryllium	0.0913	0.0030	0.00009	mg/L	0.10000	ND	91	75-125			
Boron	1.11	0.100	0.0044	mg/L	1.0000	0.250	86	75-125			
Cadmium	0.0976	0.0010	0.0001	mg/L	0.10000	ND	98	75-125			
Calcium	3.20	0.500	0.0126	mg/L	1.0000	2.22	98	75-125			
Chromium	0.0936	0.0100	0.0004	mg/L	0.10000	ND	94	75-125			
Cobalt	0.125	0.0100	0.0003	mg/L	0.10000	0.0319	93	75-125			
Copper	0.0915	0.0250	0.0004	mg/L	0.10000	ND	92	75-125			
Lead	0.0928	0.0050	0.00008	mg/L	0.10000	ND	93	75-125			
Molybdenum	0.101	0.0100	0.0005	mg/L	0.10000	ND	101	75-125			
Nickel	0.0925	0.0050	0.0005	mg/L	0.10000	0.0033	89	75-125			
Selenium	0.0969	0.0050	0.0009	mg/L	0.10000	ND	97	75-125			
Silver	0.0961	0.0050	0.0002	mg/L	0.10000	ND	96	75-125			
Thallium	0.0937	0.0010	0.00006	mg/L	0.10000	ND	94	75-125			
Vanadium	0.0946	0.0100	0.0016	mg/L	0.10000	ND	95	75-125			
Zinc	0.104	0.0100	0.0013	mg/L	0.10000	0.0098	94	75-125			
Lithium	0.0918	0.0500	0.0012	mg/L	0.10000	ND	92	75-125			



PACE ANALYTICAL SERVICES, INC.

Environmental Monitoring & Laboratory Analysis
 110 Technology Parkway, Peachtree Corners, GA 30092
 (770) 734-4200 FAX (770) 734-4201

Georgia Power
 2480 Maner Road
 Atlanta GA, 30339

Attention: Mr. Joju Abraham

July 08, 2016

Report No.: AZF1093

Metals, Total - Quality Control

Analyte	Result	RL	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 6060788 - EPA 3005A											
Matrix Spike Dup (6060788-MSD1)			Source: AZF1093-10			Prepared & Analyzed: 07/01/16					
Antimony	0.0995	0.0030	0.0002	mg/L	0.10000	ND	99	75-125	3	20	
Arsenic	0.0993	0.0050	0.0007	mg/L	0.10000	0.0011	98	75-125	2	20	
Barium	0.144	0.0100	0.0003	mg/L	0.10000	0.0368	108	75-125	3	20	
Beryllium	0.0883	0.0030	0.00009	mg/L	0.10000	ND	88	75-125	3	20	
Boron	1.09	0.100	0.0044	mg/L	1.0000	0.250	84	75-125	2	20	
Cadmium	0.0990	0.0010	0.0001	mg/L	0.10000	ND	99	75-125	1	20	
Calcium	3.08	0.500	0.0126	mg/L	1.0000	2.22	85	75-125	4	20	
Chromium	0.0957	0.0100	0.0004	mg/L	0.10000	ND	96	75-125	2	20	
Cobalt	0.129	0.0100	0.0003	mg/L	0.10000	0.0319	97	75-125	3	20	
Copper	0.0976	0.0250	0.0004	mg/L	0.10000	ND	98	75-125	6	20	
Lead	0.0932	0.0050	0.00008	mg/L	0.10000	ND	93	75-125	0.4	20	
Molybdenum	0.104	0.0100	0.0005	mg/L	0.10000	ND	104	75-125	3	20	
Nickel	0.0994	0.0050	0.0005	mg/L	0.10000	0.0033	96	75-125	7	20	
Selenium	0.0977	0.0050	0.0009	mg/L	0.10000	ND	98	75-125	0.9	20	
Silver	0.0949	0.0050	0.0002	mg/L	0.10000	ND	95	75-125	1	20	
Thallium	0.0924	0.0010	0.00006	mg/L	0.10000	ND	92	75-125	1	20	
Vanadium	0.0962	0.0100	0.0016	mg/L	0.10000	ND	96	75-125	2	20	
Zinc	0.107	0.0100	0.0013	mg/L	0.10000	0.0098	97	75-125	3	20	
Lithium	0.0925	0.0500	0.0012	mg/L	0.10000	ND	93	75-125	0.8	20	
Post Spike (6060788-PS1)			Source: AZF1093-10			Prepared & Analyzed: 07/01/16					
Antimony	95.5			ug/L	100.00	0.108	95	80-120			
Arsenic	102			ug/L	100.00	1.07	101	80-120			
Barium	149			ug/L	100.00	36.8	112	80-120			
Beryllium	94.0			ug/L	100.00	0.0221	94	80-120			
Boron	1120			ug/L	1000.0	250	87	80-120			
Cadmium	99.2			ug/L	100.00	-0.00008	99	80-120			
Calcium	3190			ug/L	1000.0	2220	97	80-120			
Chromium	101			ug/L	100.00	0.179	101	80-120			
Cobalt	132			ug/L	100.00	31.9	100	80-120			
Copper	98.2			ug/L	100.00	0.139	98	80-120			
Lead	94.9			ug/L	100.00	0.0032	95	80-120			
Molybdenum	106			ug/L	100.00	0.250	106	80-120			
Nickel	102			ug/L	100.00	3.29	99	80-120			
Selenium	102			ug/L	100.00	-0.278	102	80-120			
Silver	103			ug/L	100.00	0.0028	103	80-120			
Thallium	96.3			ug/L	100.00	0.0046	96	80-120			
Vanadium	99.3			ug/L	100.00	0.268	99	80-120			
Zinc	109			ug/L	100.00	9.85	99	80-120			
Lithium	93.4			ug/L	100.00	1.22	92	80-120			



PACE ANALYTICAL SERVICES, INC.

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(770) 734-4200 FAX (770) 734-4201

Georgia Power
2480 Maner Road
Atlanta GA, 30339

Attention: Mr. Joju Abraham

July 08, 2016

Legend

Definition of Laboratory Terms

- ND** - Not Detected at levels equal to or greater than the MDL
BRL - Not Detected at levels equal to or greater than the RL
RL - Reporting Limit **MDL** - Method Detection Limit
SOP - Method run per Pace Standard Operating Procedure
CFU - Colony Forming Units
DF - Dilution Factor **TIC** - Tentatively Identified Compound

Sample Information

N-Nitrosodiphenylamine breaks down to diphenylamine in the GCMS; both analytes are reported as N-Nitrosodiphenylamine. Pace is not NELAC certified for N-Nitrosodiphenylamine.

Phthalic acid and phthalic anhydride are reported as dimethyl phthalate

Maleic acid and maleic anhydride are reported as dimethyl malate

1,2-Diphenylhydrazine breaks down to azobenzene in the GCMS; both analytes are reported as azobenzene

Definition of Qualifiers

- QM-05** The spike recovery was outside acceptance limits for the MS and/or MSD and/or PDS due to suspected matrix interference. Sample results for the QC batch were accepted based on acceptable LCS recoveries.
- J** Estimated value less than Reporting Limit (RL) but greater than Method Detection Limit(MDL) (CLP J-Flag).
- B-01** Analyte was detected in the associated method blank at an estimated level equal to or greater than the MDL. Sample values reported as greater than the MDL and less than 10x the method blank value are reported as estimated values.

Note: Unless otherwise noted, all results are reported on an as received basis.

Georgia Power Environmental Laboratory
 NELAP Certification #E57554
 2480 Maner Road, BIN 39110
 Atlanta, Georgia 30339
 Phone: (404) 799-2100
 Company: 8-530-2100

ANALYSIS REQUEST AND CHAIN OF CUSTODY RECORD

LAB USE ONLY

Work Order No. _____
 Reviewed By: _____
 11 Page 1 of 1

Sample Shipment Date: 6/29/16 12 Standard Turnaround Time
 Sample Received Date: _____
 Sampled By: Miranda Steffer # of Business Days (Rush) _____
 (Must be cleared through Env. Lab. Prior to shipment)

AZF193

Company: Southern Company Services
 Report To: Joju Abraham
 Address: 241 Ralph McGill Blvd SE B10185
Atlanta, GA 30308
 Phone/Fax: 404-505-7239
 Contact: Joju Abraham
 Project Location: Plant Scherer
 Account Number: _____
 Special Instructions: Scherer AP CCR GW

Miranda Steffer
 Signature
 Authorization to subcontract analysis will be assumed acceptable by customer unless stated otherwise.

PRESERVATIVE ²⁰				ANALYSIS REQUESTED ²¹			
HN03	Ice	HN03		HN03	Ice	HN03	
N	I	N		N	I	N	
				EPA 6020 & EPA 7470			
				Metals app. III & IV			
				Cl, F, SO4 EPA 300			
				TDS SM2540C			
				Radium 226/228			
				SW-846 9315 & 9320			

Sample Type Key: **22**
 0: Soil 1: Other 2: Concrete
 Matrix Key: **23**
 0: Ice 1: Soil 2: Sludge 3: Gas 4: Organic
 5: Inorganic 6: Other
 Preservative Key: **24**
 1: Hydrochloric Acid 2: Nitric Acid
 3: Sulfuric Acid 4: Sodium Hydroxide
 5: No Acid 6: Phosphoric Acid
 7: Sodium Borohydride 8: U-Untreated

LAB USE ONLY ¹⁷ LAB ID	Sample Number ¹⁴	Collection ¹⁵		Sample Description ¹⁶	Sample Type	Matrix	No. of Containers
		Date	Time				
	SGWC-10	6/28/16	0829		G	GW	3
	SGWC-13	6/28/16	1105		G	GW	3
	SGWC-16	6/28/16	1345		G	GW	3
	FB-6	6/28/16	1358		G	DW	3

LAB USE ONLY: Sample Receipt Information ²⁵

Relinquished by: <u>Miranda Steffer</u>	Date/Time: <u>6/29/16 0715</u>
Received by: <u>Joju Abraham</u>	Date/Time: <u>6/29/16 0715</u>
Relinquished by: <u>Joju Abraham</u>	Date/Time: <u>6/29/16 0550</u>
Received by: <u>Joju Abraham</u>	Date/Time: <u>6/29/16 0550</u>

Charles Hombes 6/29/16 1705 F 2°C
 FIC Present Good Intact

Georgia Power Environmental Laboratory
 NELAP Certification #E57554
 2480 Maner Road, BIN 39110
 Atlanta, Georgia 30339
 Phone: (404) 799-2100
 Company: 8-530-2100

Southern Company Services
 Report To: Joju Abraham
 Address: 241 Ralph McGill Blvd SE B10185
 Atlanta, GA 30308
 Phone/Fax: 404-506-7239
 Contact: Joju Abraham
 Project Location: Plant Scherer
 Account Number: Scherer AP CCR GW
 Special Instructions:

ANALYSIS REQUEST AND CHAIN OF CUSTODY RECORD

LAB USE ONLY
 Work Order No. _____
 Reviewed By _____
 Page 1 of 1

Sample Shipment Date: 6/29/16 Standard Turnaround Time
 Sample Received Date: _____
 Sampled By: Charles Watson # of Business Days (Rush) AZF1093
 (Must be cleared through Env. Lab. prior to shipment)

LAB USE ONLY LAB ID	Sample Number	Collection		Sample Description	Sample Type	Matrix		No. of Containers	ANALYSIS REQUESTED	PRESERVATIVE		Sample Type Key: 22	Comments
		Date	Time			HNO3	Ice			HNO3	N		
	5GW-C-12	6/28/16	0918		G	GW	3		EPA 6020 & EPA 7470 Metals app. III & IV CI, F, SO4 EPA 300 TDS SM2540C Radium 226/228 SW-846 9315 & 9320				5
	5GW-C-15	6/28/16	1355		G	GW	3						6
	EQB-4	6/28/16	1445	Equipment Blank	G	DW	3						7

LAB USE ONLY: Sample Receipt Information

Relinquished by: _____ Date/Time: 6/29/16 0710
 Received by: _____ Date/Time: 6/29/16 0730
 Relinquished by: _____ Date/Time: 6/29/16 0830
 Received by: _____ Date/Time: 6/29/16 9:00
 Charles Watson 6/29/16 1705 T2C Ice Present
 Seal Intact

Georgia Power Environmental Laboratory
 NELAP Certification #E57554
 2480 Maner Road, BIN 39110
 Atlanta, Georgia 30339
 Phone: (404) 799-2100
 Company: 8-530-2100

ANALYSIS REQUEST AND CHAIN OF CUSTODY RECORD

LAB USE ONLY

Work Order No. _____
 Reviewed By: _____
 Page 1 of 1

Sample Shipment Date: 6/29/16 Standard Turnaround Time
 Sample Received Date: _____
 Sampled By: R. Hilliard # of Business Days (Rush): _____
 (Must be cleared through Env. Lab. prior to shipment)

Signature: [Signature]

Company: Southern Company Services
 Report To: Joju Abraham
 Address: 241 Ralph McGill Blvd SE B10185
 Atlanta, GA 30308
 Phone/Fax: 404-506-7239
 Contact: Joju Abraham
 Project Location: Plant Scherer
 Account Number: _____
 Special Instructions: Scherer AP CCR GW

Notification to structure analysis will be assumed acceptable by customer unless stated otherwise.

PRESERVATIVE			ANALYSIS REQUESTED			Sample Type Key: 22		
HNO3	Job	HNO3	Job	HNO3	Job	Code	Other	Comments
N	1	N	1	N	1	010	0	
Metals app. III & IV			CI, F, SO4 EPA 300			010 0-500 010-0500 010-0500-010		
EPA 6020 & EPA 7470			TDS SM2540C			010-0500-010-0500-010		
Radium 226/228			SW-846 9015 & 9320			010-0500-010-0500-010		

LAB USE ONLY LAB ID	Sample Number	Collection		Sample Description	Matrix	No. of Containers	Sample Type	LAB USE ONLY COMMENTS
		Date	Time					
	SGK1C-11	6/28/14	09:36		GW	3	G	8
	SGK1C-14	6/28/14	13:32		GW	3	G	9
	DUP-6	6/28/14	-	Field Duplicate	GW	3	G	10

Relinquished by: [Signature] Date/Time: 6/29/16 07:15
 Received by: [Signature] Date/Time: 6/29/16 07:15
 Relinquished by: [Signature] Date/Time: 6/29/16 08:18
 Received by: [Signature] Date/Time: 6/29/16 08:18

Charles Hanks 6/29/16 7:05 PM
Ice Present Seal Intact



PACE ANALYTICAL SERVICES, INC.

Environmental Monitoring & Laboratory Analysis
110 Technology Parkway, Peachtree Corners, GA 30092
(770) 734-4200 FAX (770) 734-4201

LOG-IN CHECKLIST

Printed: 7/8/2016 2:14:34PM

Attn: Mr. Joju Abraham

Client: Georgia Power

Project: CCR Event

Date Received: 06/29/16 17:05

Work Order: AZF1093

Logged In By: Charles Hawks

OBSERVATIONS

#Samples: 10

#Containers: 30

Minimum Temp(C): 2.0

Maximum Temp(C): 2.0

Custody Seal(s) Used: Yes

CHECKLIST ITEMS

COC included with Samples	YES
Sample Container(s) Intact	YES
Chain of Custody Complete	YES
Sample Container(s) Match COC	YES
Custody seal Intact	YES
Temperature in Compliance	YES
Sufficient Sample Volume for Analysis	YES
Zero Headspace Maintained for VOA Analyses	YES
Samples labeled preserved (If Applicable)	YES
Samples received within Allowable Hold Times	YES
Samples Received on Ice	YES
Preservation Confirmed	YES

Comments:



PACE ANALYTICAL SERVICES, INC.

Environmental Monitoring & Laboratory Analysis
110 Technology Parkway, Peachtree Corners, GA 30092
(770) 734-4200 FAX (770) 734-4201

Laboratory Report

Prepared For:

**Georgia Power
2480 Maner Road
Atlanta, GA 30339**

Attention: Mr. Joju Abraham

Report Number: AZG0027

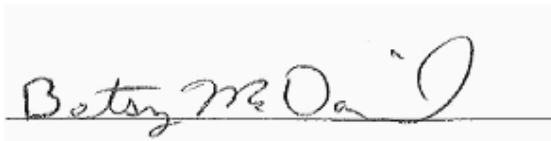
July 11, 2016

Project: CCR Event

Project #: Plant Scherer

We appreciate the opportunity to provide the analytical support for your project. The analytical results in this report are based upon information supplied by you, the client, and are for your exclusive use. If you have any questions regarding this data package, please do not hesitate to call.

Approved:



Project Manager

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All test results relate only to the samples analyzed.



PACE ANALYTICAL SERVICES, INC.

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Georgia Power
2480 Maner Road
Atlanta GA, 30339

Attention: Mr. Joju Abraham

July 11, 2016

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
SGWC-18	AZG0027-01	Ground Water	06/30/16 10:13	07/01/16 12:20
FB-7	AZG0027-02	DI Water	06/30/16 10:40	07/01/16 12:20



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Georgia Power
 2480 Maner Road
 Atlanta GA, 30339

Attention: Mr. Joju Abraham

July 11, 2016

Report No.: AZG0027

Project: CCR Event

Client ID: SGWC-18

Lab Number ID: AZG0027-01

Date/Time Sampled: 6/30/2016 10:13:00AM

Date/Time Received: 7/1/2016 12:20:00PM

Matrix: Ground Water

Analyte	Result	RL	MDL	Units	Method	Qual.	DF	Preparation Date	Analytical Date	Batch	Init.
General Chemistry											
Total Dissolved Solids	742	25	10	mg/L	SM 2540 C		1	07/05/16 16:55	07/05/16 16:55	6070053	JPT
Inorganic Anions											
Chloride	4.7	0.25	0.01	mg/L	EPA 300.0	B-01	1	07/07/16 09:36	07/07/16 13:29	6070128	RLC
Fluoride	0.18	0.30	0.02	mg/L	EPA 300.0	J	1	07/07/16 09:36	07/07/16 13:29	6070128	RLC
Sulfate	490	10	0.51	mg/L	EPA 300.0		10	07/07/16 09:36	07/07/16 15:53	6070128	RLC
Metals, Total											
Antimony	0.0012	0.0030	0.0002	mg/L	EPA 6020B	J	1	07/07/16 07:40	07/07/16 14:14	6070113	CSW
Arsenic	0.0040	0.0050	0.0007	mg/L	EPA 6020B	J	1	07/07/16 07:40	07/07/16 14:14	6070113	CSW
Barium	0.0145	0.0100	0.0003	mg/L	EPA 6020B		1	07/07/16 07:40	07/07/16 14:14	6070113	CSW
Beryllium	0.0003	0.0030	0.00009	mg/L	EPA 6020B	J	1	07/07/16 07:40	07/07/16 14:14	6070113	CSW
Boron	3.80	0.500	0.0221	mg/L	EPA 6020B		5	07/07/16 07:40	07/07/16 16:15	6070113	CSW
Cadmium	0.0002	0.0010	0.0001	mg/L	EPA 6020B	J	1	07/07/16 07:40	07/07/16 14:14	6070113	CSW
Calcium	46.4	5.00	0.126	mg/L	EPA 6020B		10	07/07/16 07:40	07/07/16 16:48	6070113	CSW
Chromium	0.0070	0.0100	0.0004	mg/L	EPA 6020B	J	1	07/07/16 07:40	07/07/16 14:14	6070113	CSW
Cobalt	0.112	0.0100	0.0003	mg/L	EPA 6020B		1	07/07/16 07:40	07/07/16 14:14	6070113	CSW
Lead	ND	0.0050	0.00008	mg/L	EPA 6020B		1	07/07/16 07:40	07/07/16 14:14	6070113	CSW
Molybdenum	ND	0.0100	0.0005	mg/L	EPA 6020B		1	07/07/16 07:40	07/07/16 14:14	6070113	CSW
Selenium	0.0263	0.0100	0.0009	mg/L	EPA 6020B		1	07/07/16 07:40	07/07/16 14:14	6070113	CSW
Thallium	0.0002	0.0010	0.00006	mg/L	EPA 6020B	J	1	07/07/16 07:40	07/07/16 14:14	6070113	CSW
Lithium	0.0032	0.0500	0.0012	mg/L	EPA 6020B	J	1	07/07/16 07:40	07/07/16 14:14	6070113	CSW
Mercury	ND	0.00050	0.00013	mg/L	EPA 7470A		1	07/06/16 08:10	07/06/16 14:40	6070070	CSW



PACE ANALYTICAL SERVICES, INC.

Environmental Monitoring & Laboratory Analysis
 110 Technology Parkway, Peachtree Corners, GA 30092
 (770) 734-4200 FAX (770) 734-4201

Georgia Power
 2480 Maner Road
 Atlanta GA, 30339

Attention: Mr. Joju Abraham

July 11, 2016

Report No.: AZG0027

Project: CCR Event

Client ID: FB-7

Lab Number ID: AZG0027-02

Date/Time Sampled: 6/30/2016 10:40:00AM

Date/Time Received: 7/1/2016 12:20:00PM

Matrix: DI Water

Analyte	Result	RL	MDL	Units	Method	Qual.	DF	Preparation Date	Analytical Date	Batch	Init.
General Chemistry											
Total Dissolved Solids	ND	25	10	mg/L	SM 2540 C		1	07/05/16 16:55	07/05/16 16:55	6070053	JPT
Inorganic Anions											
Chloride	0.07	0.25	0.01	mg/L	EPA 300.0	B-01, J	1	07/07/16 09:36	07/07/16 13:49	6070128	RLC
Fluoride	ND	0.30	0.02	mg/L	EPA 300.0		1	07/07/16 09:36	07/07/16 13:49	6070128	RLC
Sulfate	0.21	1.0	0.05	mg/L	EPA 300.0	J	1	07/07/16 09:36	07/07/16 13:49	6070128	RLC
Metals, Total											
Antimony	0.0004	0.0030	0.0002	mg/L	EPA 6020B	J	1	07/07/16 07:40	07/07/16 14:19	6070113	CSW
Arsenic	ND	0.0050	0.0007	mg/L	EPA 6020B		1	07/07/16 07:40	07/07/16 14:19	6070113	CSW
Barium	ND	0.0100	0.0003	mg/L	EPA 6020B		1	07/07/16 07:40	07/07/16 14:19	6070113	CSW
Beryllium	ND	0.0030	0.00009	mg/L	EPA 6020B		1	07/07/16 07:40	07/07/16 14:19	6070113	CSW
Boron	0.0483	0.100	0.0044	mg/L	EPA 6020B	J	1	07/07/16 07:40	07/07/16 14:23	6070113	CSW
Cadmium	ND	0.0010	0.0001	mg/L	EPA 6020B		1	07/07/16 07:40	07/07/16 14:19	6070113	CSW
Calcium	0.0311	0.500	0.0126	mg/L	EPA 6020B	J	1	07/07/16 07:40	07/07/16 14:19	6070113	CSW
Chromium	ND	0.0100	0.0004	mg/L	EPA 6020B		1	07/07/16 07:40	07/07/16 14:19	6070113	CSW
Cobalt	ND	0.0100	0.0003	mg/L	EPA 6020B		1	07/07/16 07:40	07/07/16 14:19	6070113	CSW
Lead	ND	0.0050	0.00008	mg/L	EPA 6020B		1	07/07/16 07:40	07/07/16 14:19	6070113	CSW
Molybdenum	ND	0.0100	0.0005	mg/L	EPA 6020B		1	07/07/16 07:40	07/07/16 14:19	6070113	CSW
Selenium	ND	0.0100	0.0009	mg/L	EPA 6020B		1	07/07/16 07:40	07/07/16 14:19	6070113	CSW
Thallium	ND	0.0010	0.00006	mg/L	EPA 6020B		1	07/07/16 07:40	07/07/16 14:19	6070113	CSW
Lithium	ND	0.0500	0.0012	mg/L	EPA 6020B		1	07/07/16 07:40	07/07/16 14:19	6070113	CSW
Mercury	ND	0.00050	0.00013	mg/L	EPA 7470A		1	07/06/16 08:10	07/06/16 14:42	6070070	CSW



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General Chemistry - Quality Control

Analyte	Result	RL	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 6070053 - SM 2540 C											
Blank (6070053-BLK1)						Prepared & Analyzed: 07/05/16					
Total Dissolved Solids	ND	25	10	mg/L							
LCS (6070053-BS1)						Prepared & Analyzed: 07/05/16					
Total Dissolved Solids	399	25	10	mg/L	400.00		100	84-108			
Duplicate (6070053-DUP1)						Source: AZF1093-02RE1 Prepared & Analyzed: 07/05/16					
Total Dissolved Solids	195	25	10	mg/L		198			2	10	
Duplicate (6070053-DUP2)						Source: AZF1093-04RE1 Prepared & Analyzed: 07/05/16					
Total Dissolved Solids	ND	25	10	mg/L		ND				10	



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Report No.: AZG0027

Inorganic Anions - Quality Control

Analyte	Result	RL	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 6070128 - EPA 300.0											
Blank (6070128-BLK1)						Prepared & Analyzed: 07/07/16					
Chloride	0.05	0.25	0.01	mg/L							J
Fluoride	ND	0.10	0.02	mg/L							
Sulfate	ND	1.0	0.05	mg/L							
LCS (6070128-BS1)						Prepared & Analyzed: 07/07/16					
Chloride	9.82	1.0	0.01	mg/L	10.010		98	90-110			
Fluoride	10.5	0.10	0.02	mg/L	10.010		105	90-110			
Sulfate	10.0	5.0	0.05	mg/L	10.010		100	90-110			
Matrix Spike (6070128-MS1)						Source: AZG0065-01 Prepared & Analyzed: 07/07/16					
Chloride	9.99	1.0	0.01	mg/L	10.010	1.42	86	90-110			QM-05
Fluoride	9.58	0.10	0.02	mg/L	10.010	0.10	95	90-110			
Sulfate	13.2	5.0	0.05	mg/L	10.010	4.62	85	90-110			QM-05
Matrix Spike Dup (6070128-MSD1)						Source: AZG0065-01 Prepared & Analyzed: 07/07/16					
Chloride	11.0	1.0	0.01	mg/L	10.010	1.42	96	90-110	10	15	
Fluoride	10.6	0.10	0.02	mg/L	10.010	0.10	105	90-110	10	15	
Sulfate	14.2	5.0	0.05	mg/L	10.010	4.62	95	90-110	7	15	



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Metals, Total - Quality Control

Analyte	Result	RL	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 6070070 - EPA 7470A											
Blank (6070070-BLK1)						Prepared & Analyzed: 07/06/16					
Mercury	ND	0.00050	0.00013	mg/L							
LCS (6070070-BS1)						Prepared & Analyzed: 07/06/16					
Mercury	0.00240	0.00050	0.00013	mg/L	2.5000E-3		96	80-120			
Matrix Spike (6070070-MS1)						Source: AZF1167-02 Prepared & Analyzed: 07/06/16					
Mercury	0.00234	0.00050	0.00013	mg/L	2.5000E-3	ND	94	75-125			
Matrix Spike Dup (6070070-MSD1)						Source: AZF1167-02 Prepared & Analyzed: 07/06/16					
Mercury	0.00225	0.00050	0.00013	mg/L	2.5000E-3	ND	90	75-125	4	20	
Post Spike (6070070-PS1)						Source: AZF1167-02 Prepared & Analyzed: 07/06/16					
Mercury	1.47			ug/L	1.6667	0.0340	86	80-120			
Batch 6070113 - EPA 3005A											
Blank (6070113-BLK1)						Prepared & Analyzed: 07/07/16					
Antimony	ND	0.0030	0.0002	mg/L							
Arsenic	ND	0.0050	0.0007	mg/L							
Barium	ND	0.0100	0.0003	mg/L							
Beryllium	ND	0.0030	0.00009	mg/L							
Boron	ND	0.100	0.0044	mg/L							
Cadmium	ND	0.0010	0.0001	mg/L							
Calcium	ND	0.500	0.0126	mg/L							
Chromium	ND	0.0100	0.0004	mg/L							
Cobalt	ND	0.0100	0.0003	mg/L							
Copper	ND	0.0050	0.0004	mg/L							
Lead	ND	0.0050	0.00008	mg/L							
Molybdenum	ND	0.0100	0.0005	mg/L							
Nickel	ND	0.0050	0.0005	mg/L							
Selenium	ND	0.0100	0.0009	mg/L							
Silver	ND	0.0050	0.0002	mg/L							
Thallium	ND	0.0010	0.00006	mg/L							
Vanadium	ND	0.0100	0.0016	mg/L							
Zinc	ND	0.0100	0.0013	mg/L							
Lithium	ND	0.0500	0.0012	mg/L							



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July 11, 2016

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Metals, Total - Quality Control

Analyte	Result	RL	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 6070113 - EPA 3005A											
LCS (6070113-BS1)						Prepared & Analyzed: 07/07/16					
Antimony	0.102	0.0030	0.0002	mg/L	0.10000		102	80-120			
Arsenic	0.0993	0.0050	0.0007	mg/L	0.10000		99	80-120			
Barium	0.0978	0.0100	0.0003	mg/L	0.10000		98	80-120			
Beryllium	0.0988	0.0030	0.00009	mg/L	0.10000		99	80-120			
Boron	0.971	0.100	0.0044	mg/L	1.0000		97	80-120			
Cadmium	0.0993	0.0010	0.0001	mg/L	0.10000		99	80-120			
Calcium	0.969	0.500	0.0126	mg/L	1.0000		97	80-120			
Chromium	0.104	0.0100	0.0004	mg/L	0.10000		104	80-120			
Cobalt	0.103	0.0100	0.0003	mg/L	0.10000		103	80-120			
Copper	0.0989	0.0050	0.0004	mg/L	0.10000		99	80-120			
Lead	0.0965	0.0050	0.00008	mg/L	0.10000		96	80-120			
Molybdenum	0.0995	0.0100	0.0005	mg/L	0.10000		99	80-120			
Nickel	0.101	0.0050	0.0005	mg/L	0.10000		101	80-120			
Selenium	0.100	0.0100	0.0009	mg/L	0.10000		100	80-120			
Silver	0.101	0.0050	0.0002	mg/L	0.10000		101	80-120			
Thallium	0.0965	0.0010	0.00006	mg/L	0.10000		96	80-120			
Vanadium	0.101	0.0100	0.0016	mg/L	0.10000		101	80-120			
Zinc	0.100	0.0100	0.0013	mg/L	0.10000		100	80-120			
Lithium	0.0985	0.0500	0.0012	mg/L	0.10000		98	80-120			
Matrix Spike (6070113-MS1)											
				Source: AZG0027-01		Prepared & Analyzed: 07/07/16					
Antimony	0.0965	0.0030	0.0002	mg/L	0.10000	0.0012	95	75-125			
Arsenic	0.100	0.0050	0.0007	mg/L	0.10000	0.0040	96	75-125			
Barium	0.107	0.0100	0.0003	mg/L	0.10000	0.0145	93	75-125			
Beryllium	0.0871	0.0030	0.00009	mg/L	0.10000	0.0003	87	75-125			
Boron	4.71	0.500	0.0221	mg/L	1.0000	3.80	91	75-125			
Cadmium	0.0925	0.0010	0.0001	mg/L	0.10000	0.0002	92	75-125			
Calcium	46.5	5.00	0.126	mg/L	1.0000	46.4	14	75-125			QM-02
Chromium	0.106	0.0100	0.0004	mg/L	0.10000	0.0070	99	75-125			
Cobalt	0.214	0.0100	0.0003	mg/L	0.10000	0.112	102	75-125			
Copper	0.107	0.0050	0.0004	mg/L	0.10000	0.0155	92	75-125			
Lead	0.0820	0.0050	0.00008	mg/L	0.10000	ND	82	75-125			
Molybdenum	0.0980	0.0100	0.0005	mg/L	0.10000	ND	98	75-125			
Nickel	0.107	0.0050	0.0005	mg/L	0.10000	0.0140	93	75-125			
Selenium	0.121	0.0100	0.0009	mg/L	0.10000	0.0263	95	75-125			
Silver	0.0927	0.0050	0.0002	mg/L	0.10000	ND	93	75-125			
Thallium	0.0823	0.0010	0.00006	mg/L	0.10000	0.0002	82	75-125			
Vanadium	0.100	0.0100	0.0016	mg/L	0.10000	ND	100	75-125			
Zinc	0.183	0.0100	0.0013	mg/L	0.10000	0.0886	94	75-125			
Lithium	0.0880	0.0500	0.0012	mg/L	0.10000	0.0032	85	75-125			



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Attention: Mr. Joju Abraham

July 11, 2016

Report No.: AZG0027

Metals, Total - Quality Control

Analyte	Result	RL	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 6070113 - EPA 3005A											
Matrix Spike Dup (6070113-MSD1)			Source: AZG0027-01			Prepared & Analyzed: 07/07/16					
Antimony	0.0978	0.0030	0.0002	mg/L	0.10000	0.0012	97	75-125	1	20	
Arsenic	0.102	0.0050	0.0007	mg/L	0.10000	0.0040	98	75-125	2	20	
Barium	0.110	0.0100	0.0003	mg/L	0.10000	0.0145	96	75-125	3	20	
Beryllium	0.0881	0.0030	0.00009	mg/L	0.10000	0.0003	88	75-125	1	20	
Boron	4.85	0.500	0.0221	mg/L	1.0000	3.80	105	75-125	3	20	
Cadmium	0.0947	0.0010	0.0001	mg/L	0.10000	0.0002	95	75-125	2	20	
Calcium	47.0	5.00	0.126	mg/L	1.0000	46.4	59	75-125	1	20	QM-02
Chromium	0.106	0.0100	0.0004	mg/L	0.10000	0.0070	99	75-125	0.4	20	
Cobalt	0.213	0.0100	0.0003	mg/L	0.10000	0.112	101	75-125	0.5	20	
Copper	0.108	0.0050	0.0004	mg/L	0.10000	0.0155	93	75-125	1	20	
Lead	0.0819	0.0050	0.00008	mg/L	0.10000	ND	82	75-125	0.04	20	
Molybdenum	0.0997	0.0100	0.0005	mg/L	0.10000	ND	100	75-125	2	20	
Nickel	0.108	0.0050	0.0005	mg/L	0.10000	0.0140	94	75-125	0.8	20	
Selenium	0.126	0.0100	0.0009	mg/L	0.10000	0.0263	99	75-125	3	20	
Silver	0.0949	0.0050	0.0002	mg/L	0.10000	ND	95	75-125	2	20	
Thallium	0.0826	0.0010	0.00006	mg/L	0.10000	0.0002	82	75-125	0.4	20	
Vanadium	0.101	0.0100	0.0016	mg/L	0.10000	ND	101	75-125	1	20	
Zinc	0.186	0.0100	0.0013	mg/L	0.10000	0.0886	97	75-125	2	20	
Lithium	0.0893	0.0500	0.0012	mg/L	0.10000	0.0032	86	75-125	1	20	
Post Spike (6070113-PS1)			Source: AZG0027-01			Prepared & Analyzed: 07/07/16					
Antimony	90.6			ug/L	100.00	1.23	89	80-120			
Arsenic	102			ug/L	100.00	3.99	98	80-120			
Barium	106			ug/L	100.00	14.5	91	80-120			
Beryllium	87.5			ug/L	100.00	0.300	87	80-120			
Boron	4710			ug/L	1000.0	3800	91	80-120			
Cadmium	94.1			ug/L	100.00	0.175	94	80-120			
Calcium	46200			ug/L	1000.0	46400	NR	80-120			QM-02
Chromium	108			ug/L	100.00	6.98	101	80-120			
Cobalt	213			ug/L	100.00	112	101	80-120			
Copper	108			ug/L	100.00	15.5	92	80-120			
Lead	83.4			ug/L	100.00	0.0396	83	80-120			
Molybdenum	98.1			ug/L	100.00	0.135	98	80-120			
Nickel	109			ug/L	100.00	14.0	95	80-120			
Selenium	120			ug/L	100.00	26.3	94	80-120			
Silver	92.2			ug/L	100.00	0.0370	92	80-120			
Thallium	84.5			ug/L	100.00	0.211	84	80-120			
Vanadium	103			ug/L	100.00	0.239	103	80-120			
Zinc	184			ug/L	100.00	88.6	95	80-120			
Lithium	87.5			ug/L	100.00	3.16	84	80-120			



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Attention: Mr. Joju Abraham

July 11, 2016

Legend

Definition of Laboratory Terms

- ND** - Not Detected at levels equal to or greater than the MDL
BRL - Not Detected at levels equal to or greater than the RL
RL - Reporting Limit **MDL** - Method Detection Limit
SOP - Method run per Pace Standard Operating Procedure
CFU - Colony Forming Units
DF - Dilution Factor **TIC** - Tentatively Identified Compound

Sample Information

N-Nitrosodiphenylamine breaks down to diphenylamine in the GCMS; both analytes are reported as N-Nitrosodiphenylamine. Pace is not NELAC certified for N-Nitrosodiphenylamine.

Phthalic acid and phthalic anhydride are reported as dimethyl phthalate

Maleic acid and maleic anhydride are reported as dimethyl malate

1,2-Diphenylhydrazine breaks down to azobenzene in the GCMS; both analytes are reported as azobenzene

Definition of Qualifiers

- QM-05** The spike recovery was outside acceptance limits for the MS and/or MSD and/or PDS due to suspected matrix interference. Sample results for the QC batch were accepted based on acceptable LCS recoveries.
- QM-02** The spike recovery is outside acceptance limits due to insignificant spike amount as compared to sample concentration.
- J** Estimated value less than Reporting Limit (RL) but greater than Method Detection Limit(MDL) (CLP J-Flag).
- B-01** Analyte was detected in the associated method blank at an estimated level equal to or greater than the MDL. Sample values reported as greater than the MDL and less than 10x the method blank value are reported as estimated values.

Note: Unless otherwise noted, all results are reported on an as received basis.

Georgia Power Environmental Laboratory
 NELAP Certification #E57554
 2480 Maner Road, BIN 39110
 Atlanta, Georgia 30339
 Phone: (404) 799-2100
 Company: 8-530-2100

ANALYSIS REQUEST AND CHAIN OF CUSTODY RECORD

LAB USE ONLY

Work Order No. H10001
 Reviewed By: _____
 Page 1 of 1

Sample Shipment Date:⁸ 6/30/16 ¹² Standard Turnaround Time

Sample Received Date:⁹ _____
 Sampled By:¹⁰ Charles Watson # of Business Days (Rush)
 (Must be cleared through Env. Lab. Prior to shipment)

Company:¹ Southern Company Services
 Report To: Joju Abraham
 Address:² 241 Ralph McGill Blvd SE B10185
Atlanta, GA 30308
 Phone/Fax:³ 404-506-7239
 Contact:⁴ Joju Abraham
 Project Location:⁵ Plant Scherer
 Account Number:⁶ _____
 Special Instructions:⁷ Scherer AP CCR GW

LAB USE ONLY LAB ID	Sample Number ¹⁴	Collection ¹⁵		Sample Description ¹⁶	Sample Type ¹⁷	Matrix ¹⁸	No. of Containers ¹⁹	ANALYSIS REQUESTED ²¹			PRESERVATIVE ²⁰			Sample Type Key: ²² C-Clean O-Other C-Composite		
		Date	Time					HNO3 N	Ice I	HNO3 N	Matrix Key: ²³ D-Cl B-Solid S-Solids SW-Solvent Water M-Misc Water DM-Dumping Water	Preservative Key: ²⁴ H-Hydrochloric Acid M-Maleic Acid S-Sulfuric Acid SH-Sodium Hydroxide SB-Sodium Bisulfite P-Phosphoric Acid BT-Sodium Thiosulfate U-Uranyl Oxide	LAB USE ONLY ²⁵ Comments			
	SG-GC-18	6/30/16	1013		G-GW	3		Metals app. III & IV EPA 6020 & EPA 7470	CI, F, SO4 EPA 300 TDS SM2540C	Radium 226/228 SW-846 9315 & 9320					1	
	FB-7	6/30/16	1040	Field Blank	G-GW	3										2

LAB USE ONLY: Sample Receipt Information²⁶

Relinquished by:²⁶ Cam Date/Time 6/30/16 14:18
 Received by:²⁷ Charles Watson Date/Time 6/30/16 14:20
 Relinquished by: _____ Date/Time _____
 Received by: _____ Date/Time _____

Madalyn 07/01/16 12:20, 100, 100, 100
Intact, LPP, Pace courier.



PACE ANALYTICAL SERVICES, INC.

Environmental Monitoring & Laboratory Analysis
110 Technology Parkway, Peachtree Corners, GA 30092
(770) 734-4200 FAX (770) 734-4201

LOG-IN CHECKLIST

Printed: 7/11/2016 5:48:52PM

Attn: Mr. Joju Abraham

Client: Georgia Power

Project: CCR Event

Date Received: 07/01/16 12:20

Work Order: AZG0027

Logged In By: Mohammad M. Rahman

OBSERVATIONS

#Samples: 2

#Containers: 6

Minimum Temp(C): 1.0

Maximum Temp(C): 1.0

Custody Seal(s) Used: Yes

CHECKLIST ITEMS

COC included with Samples	YES
Sample Container(s) Intact	YES
Chain of Custody Complete	YES
Sample Container(s) Match COC	YES
Custody seal Intact	YES
Temperature in Compliance	YES
Sufficient Sample Volume for Analysis	YES
Zero Headspace Maintained for VOA Analyses	YES
Samples labeled preserved (If Applicable)	YES
Samples received within Allowable Hold Times	YES
Samples Received on Ice	YES
Preservation Confirmed	YES

Comments:



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Environmental Monitoring & Laboratory Analysis
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Laboratory Report

Prepared For:

**Georgia Power
2480 Maner Road
Atlanta, GA 30339**

Attention: Mr. Joju Abraham

Report Number: AZF1167

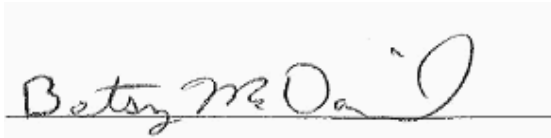
July 08, 2016

Project: CCR Event

Project #:Plant Scherer

We appreciate the opportunity to provide the analytical support for your project. The analytical results in this report are based upon information supplied by you, the client, and are for your exclusive use. If you have any questions regarding this data package, please do not hesitate to call.

Approved:



Project Manager

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All test results relate only to the samples analyzed.



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Georgia Power
2480 Maner Road
Atlanta GA, 30339

Attention: Mr. Joju Abraham

July 08, 2016

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
SGWC-22	AZF1167-01	Ground Water	06/29/16 11:11	06/30/16 16:25
SGWC-19	AZF1167-02	Ground Water	06/29/16 13:33	06/30/16 16:25
Dup-7	AZF1167-03	Ground Water	06/29/16 00:00	06/30/16 16:25
SGWC-17	AZF1167-04	Ground Water	06/29/16 08:26	06/30/16 16:25
SGWC-21	AZF1167-05	Ground Water	06/29/16 10:36	06/30/16 16:25
SGWC-9	AZF1167-06	Ground Water	06/29/16 13:45	06/30/16 16:25
SGWC-23	AZF1167-07	Ground Water	06/29/16 10:18	06/30/16 16:25
SGWC-20	AZF1167-08	Ground Water	06/29/16 12:58	06/30/16 16:25
EQB-7	AZF1167-09	DI Water	06/29/16 13:58	06/30/16 16:25



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Georgia Power
 2480 Maner Road
 Atlanta GA, 30339

Attention: Mr. Joju Abraham

July 08, 2016

Report No.: AZF1167

Project: CCR Event

Client ID: SGWC-22

Lab Number ID: AZF1167-01

Date/Time Sampled: 6/29/2016 11:11:00AM

Date/Time Received: 6/30/2016 4:25:00PM

Matrix: Ground Water

Analyte	Result	RL	MDL	Units	Method	Qual.	DF	Preparation Date	Analytical Date	Batch	Init.
General Chemistry											
Total Dissolved Solids	214	25	10	mg/L	SM 2540 C		1	07/01/16 11:35	07/01/16 11:35	6070007	JPT
Inorganic Anions											
Chloride	9.7	0.25	0.01	mg/L	EPA 300.0	B-01	1	07/05/16 10:39	07/05/16 19:11	6070056	RLC
Fluoride	0.04	0.30	0.02	mg/L	EPA 300.0	J	1	07/05/16 10:39	07/05/16 19:11	6070056	RLC
Sulfate	84	2.0	0.10	mg/L	EPA 300.0		2	07/05/16 10:39	07/06/16 05:11	6070056	RLC
Metals, Total											
Antimony	ND	0.0030	0.0002	mg/L	EPA 6020B		1	07/01/16 08:45	07/01/16 17:35	6060788	KLH
Arsenic	ND	0.0050	0.0007	mg/L	EPA 6020B		1	07/01/16 08:45	07/01/16 17:35	6060788	KLH
Barium	0.0991	0.0100	0.0003	mg/L	EPA 6020B		1	07/01/16 08:45	07/01/16 17:35	6060788	KLH
Beryllium	ND	0.0030	0.00009	mg/L	EPA 6020B		1	07/01/16 08:45	07/01/16 17:35	6060788	KLH
Boron	0.373	0.100	0.0044	mg/L	EPA 6020B		1	07/01/16 08:45	07/01/16 17:35	6060788	KLH
Cadmium	ND	0.0010	0.0001	mg/L	EPA 6020B		1	07/01/16 08:45	07/01/16 17:35	6060788	KLH
Calcium	21.8	2.50	0.0628	mg/L	EPA 6020B	B-01	5	07/01/16 08:45	07/05/16 15:10	6060788	KLH
Chromium	0.0007	0.0100	0.0004	mg/L	EPA 6020B	J	1	07/01/16 08:45	07/01/16 17:35	6060788	KLH
Cobalt	0.0051	0.0100	0.0003	mg/L	EPA 6020B	J	1	07/01/16 08:45	07/01/16 17:35	6060788	KLH
Lead	ND	0.0050	0.00008	mg/L	EPA 6020B		1	07/01/16 08:45	07/01/16 17:35	6060788	KLH
Molybdenum	ND	0.0100	0.0005	mg/L	EPA 6020B		1	07/01/16 08:45	07/01/16 17:35	6060788	KLH
Selenium	ND	0.0100	0.0009	mg/L	EPA 6020B		1	07/01/16 08:45	07/01/16 17:35	6060788	KLH
Thallium	ND	0.0010	0.00006	mg/L	EPA 6020B		1	07/01/16 08:45	07/01/16 17:35	6060788	KLH
Lithium	ND	0.0500	0.0012	mg/L	EPA 6020B		1	07/01/16 08:45	07/01/16 17:35	6060788	KLH
Mercury	ND	0.00050	0.00013	mg/L	EPA 7470A		1	07/06/16 08:10	07/06/16 14:13	6070070	CSW



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Georgia Power
 2480 Maner Road
 Atlanta GA, 30339

Attention: Mr. Joju Abraham

July 08, 2016

Report No.: AZF1167

Project: CCR Event

Client ID: SGWC-19

Lab Number ID: AZF1167-02

Date/Time Sampled: 6/29/2016 1:33:00PM

Date/Time Received: 6/30/2016 4:25:00PM

Matrix: Ground Water

Analyte	Result	RL	MDL	Units	Method	Qual.	DF	Preparation Date	Analytical Date	Batch	Init.
General Chemistry											
Total Dissolved Solids	370	25	10	mg/L	SM 2540 C		1	07/01/16 11:35	07/01/16 11:35	6070007	JPT
Inorganic Anions											
Chloride	7.6	0.25	0.01	mg/L	EPA 300.0	B-01	1	07/05/16 10:39	07/05/16 19:52	6070056	RLC
Fluoride	0.18	0.30	0.02	mg/L	EPA 300.0	J	1	07/05/16 10:39	07/05/16 19:52	6070056	RLC
Sulfate	220	5.0	0.26	mg/L	EPA 300.0		5	07/05/16 10:39	07/06/16 19:39	6070056	RLC
Metals, Total											
Antimony	ND	0.0030	0.0002	mg/L	EPA 6020B		1	07/01/16 08:45	07/01/16 17:40	6060788	KLH
Arsenic	ND	0.0050	0.0007	mg/L	EPA 6020B		1	07/01/16 08:45	07/01/16 17:40	6060788	KLH
Barium	0.0485	0.0100	0.0003	mg/L	EPA 6020B		1	07/01/16 08:45	07/01/16 17:40	6060788	KLH
Beryllium	0.0002	0.0030	0.00009	mg/L	EPA 6020B	J	1	07/01/16 08:45	07/01/16 17:40	6060788	KLH
Boron	1.67	0.100	0.0044	mg/L	EPA 6020B		1	07/01/16 08:45	07/01/16 17:40	6060788	KLH
Cadmium	ND	0.0010	0.0001	mg/L	EPA 6020B		1	07/01/16 08:45	07/01/16 17:40	6060788	KLH
Calcium	34.6	2.50	0.0628	mg/L	EPA 6020B	B-01	5	07/01/16 08:45	07/01/16 17:40	6060788	KLH
Chromium	0.0141	0.0100	0.0004	mg/L	EPA 6020B		1	07/01/16 08:45	07/01/16 17:40	6060788	KLH
Cobalt	0.0006	0.0100	0.0003	mg/L	EPA 6020B	J	1	07/01/16 08:45	07/01/16 17:40	6060788	KLH
Lead	ND	0.0050	0.00008	mg/L	EPA 6020B		1	07/01/16 08:45	07/01/16 17:40	6060788	KLH
Molybdenum	ND	0.0100	0.0005	mg/L	EPA 6020B		1	07/01/16 08:45	07/01/16 17:40	6060788	KLH
Selenium	ND	0.0100	0.0009	mg/L	EPA 6020B		1	07/01/16 08:45	07/01/16 17:40	6060788	KLH
Thallium	ND	0.0010	0.00006	mg/L	EPA 6020B		1	07/01/16 08:45	07/01/16 17:40	6060788	KLH
Lithium	ND	0.0500	0.0012	mg/L	EPA 6020B		1	07/01/16 08:45	07/01/16 17:40	6060788	KLH
Mercury	ND	0.00050	0.00013	mg/L	EPA 7470A		1	07/06/16 08:10	07/06/16 14:16	6070070	CSW



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 Atlanta GA, 30339

Attention: Mr. Joju Abraham

July 08, 2016

Report No.: AZF1167

Project: CCR Event

Client ID: Dup-7

Lab Number ID: AZF1167-03

Date/Time Sampled: 6/29/2016 12:00:00AM

Date/Time Received: 6/30/2016 4:25:00PM

Matrix: Ground Water

Analyte	Result	RL	MDL	Units	Method	Qual.	DF	Preparation Date	Analytical Date	Batch	Init.
General Chemistry											
Total Dissolved Solids	365	25	10	mg/L	SM 2540 C		1	07/01/16 11:35	07/01/16 11:35	6070007	JPT
Inorganic Anions											
Chloride	7.5	0.25	0.01	mg/L	EPA 300.0	B-01	1	07/05/16 10:39	07/05/16 20:13	6070056	RLC
Fluoride	0.03	0.30	0.02	mg/L	EPA 300.0	J	1	07/05/16 10:39	07/05/16 20:13	6070056	RLC
Sulfate	210	5.0	0.26	mg/L	EPA 300.0		5	07/05/16 10:39	07/06/16 20:00	6070056	RLC
Metals, Total											
Antimony	ND	0.0030	0.0002	mg/L	EPA 6020B		1	07/01/16 08:45	07/01/16 17:45	6060788	KLH
Arsenic	ND	0.0050	0.0007	mg/L	EPA 6020B		1	07/01/16 08:45	07/01/16 17:45	6060788	KLH
Barium	0.0485	0.0100	0.0003	mg/L	EPA 6020B		1	07/01/16 08:45	07/01/16 17:45	6060788	KLH
Beryllium	0.0001	0.0030	0.00009	mg/L	EPA 6020B	J	1	07/01/16 08:45	07/01/16 17:45	6060788	KLH
Boron	1.59	0.100	0.0044	mg/L	EPA 6020B		1	07/01/16 08:45	07/01/16 17:45	6060788	KLH
Cadmium	ND	0.0010	0.0001	mg/L	EPA 6020B		1	07/01/16 08:45	07/01/16 17:45	6060788	KLH
Calcium	34.4	2.50	0.0628	mg/L	EPA 6020B	B-01	5	07/01/16 08:45	07/05/16 16:12	6060788	KLH
Chromium	0.0145	0.0100	0.0004	mg/L	EPA 6020B		1	07/01/16 08:45	07/01/16 17:45	6060788	KLH
Cobalt	0.0006	0.0100	0.0003	mg/L	EPA 6020B	J	1	07/01/16 08:45	07/01/16 17:45	6060788	KLH
Lead	ND	0.0050	0.00008	mg/L	EPA 6020B		1	07/01/16 08:45	07/01/16 17:45	6060788	KLH
Molybdenum	ND	0.0100	0.0005	mg/L	EPA 6020B		1	07/01/16 08:45	07/01/16 17:45	6060788	KLH
Selenium	0.0010	0.0100	0.0009	mg/L	EPA 6020B	J	1	07/01/16 08:45	07/01/16 17:45	6060788	KLH
Thallium	ND	0.0010	0.00006	mg/L	EPA 6020B		1	07/01/16 08:45	07/01/16 17:45	6060788	KLH
Lithium	ND	0.0500	0.0012	mg/L	EPA 6020B		1	07/01/16 08:45	07/01/16 17:45	6060788	KLH
Mercury	ND	0.00050	0.00013	mg/L	EPA 7470A		1	07/06/16 08:10	07/06/16 14:24	6070070	CSW



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 Atlanta GA, 30339

Attention: Mr. Joju Abraham

July 08, 2016

Report No.: AZF1167

Project: CCR Event

Client ID: SGWC-17

Lab Number ID: AZF1167-04

Date/Time Sampled: 6/29/2016 8:26:00AM

Date/Time Received: 6/30/2016 4:25:00PM

Matrix: Ground Water

Analyte	Result	RL	MDL	Units	Method	Qual.	DF	Preparation Date	Analytical Date	Batch	Init.
General Chemistry											
Total Dissolved Solids	323	25	10	mg/L	SM 2540 C		1	07/01/16 11:35	07/01/16 11:35	6070007	JPT
Inorganic Anions											
Chloride	8.3	0.25	0.01	mg/L	EPA 300.0	B-01	1	07/05/16 10:39	07/05/16 20:34	6070056	RLC
Fluoride	0.17	0.30	0.02	mg/L	EPA 300.0	J	1	07/05/16 10:39	07/05/16 20:34	6070056	RLC
Sulfate	120	5.0	0.26	mg/L	EPA 300.0		5	07/05/16 10:39	07/06/16 20:21	6070056	RLC
Metals, Total											
Antimony	ND	0.0030	0.0002	mg/L	EPA 6020B		1	07/01/16 08:45	07/01/16 17:50	6060788	KLH
Arsenic	ND	0.0050	0.0007	mg/L	EPA 6020B		1	07/01/16 08:45	07/01/16 17:50	6060788	KLH
Barium	0.0161	0.0100	0.0003	mg/L	EPA 6020B		1	07/01/16 08:45	07/01/16 17:50	6060788	KLH
Beryllium	ND	0.0030	0.00009	mg/L	EPA 6020B		1	07/01/16 08:45	07/01/16 17:50	6060788	KLH
Boron	0.198	0.100	0.0044	mg/L	EPA 6020B		1	07/01/16 08:45	07/01/16 17:50	6060788	KLH
Cadmium	ND	0.0010	0.0001	mg/L	EPA 6020B		1	07/01/16 08:45	07/01/16 17:50	6060788	KLH
Calcium	33.1	2.50	0.0628	mg/L	EPA 6020B	B-01	5	07/01/16 08:45	07/05/16 16:17	6060788	KLH
Chromium	0.0036	0.0100	0.0004	mg/L	EPA 6020B	J	1	07/01/16 08:45	07/01/16 17:50	6060788	KLH
Cobalt	0.0007	0.0100	0.0003	mg/L	EPA 6020B	J	1	07/01/16 08:45	07/01/16 17:50	6060788	KLH
Lead	ND	0.0050	0.00008	mg/L	EPA 6020B		1	07/01/16 08:45	07/01/16 17:50	6060788	KLH
Molybdenum	ND	0.0100	0.0005	mg/L	EPA 6020B		1	07/01/16 08:45	07/01/16 17:50	6060788	KLH
Selenium	ND	0.0100	0.0009	mg/L	EPA 6020B		1	07/01/16 08:45	07/01/16 17:50	6060788	KLH
Thallium	ND	0.0010	0.00006	mg/L	EPA 6020B		1	07/01/16 08:45	07/01/16 17:50	6060788	KLH
Lithium	ND	0.0500	0.0012	mg/L	EPA 6020B		1	07/01/16 08:45	07/01/16 17:50	6060788	KLH
Mercury	ND	0.00050	0.00013	mg/L	EPA 7470A		1	07/06/16 08:10	07/06/16 14:26	6070070	CSW



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 Atlanta GA, 30339

Attention: Mr. Joju Abraham

July 08, 2016

Report No.: AZF1167

Project: CCR Event

Client ID: SGWC-21

Lab Number ID: AZF1167-05

Date/Time Sampled: 6/29/2016 10:36:00AM

Date/Time Received: 6/30/2016 4:25:00PM

Matrix: Ground Water

Analyte	Result	RL	MDL	Units	Method	Qual.	DF	Preparation Date	Analytical Date	Batch	Init.
General Chemistry											
Total Dissolved Solids	311	25	10	mg/L	SM 2540 C		1	07/01/16 11:35	07/01/16 11:35	6070007	JPT
Inorganic Anions											
Chloride	7.7	0.25	0.01	mg/L	EPA 300.0	B-01	1	07/05/16 10:39	07/05/16 20:54	6070056	RLC
Fluoride	0.15	0.30	0.02	mg/L	EPA 300.0	J	1	07/05/16 10:39	07/05/16 20:54	6070056	RLC
Sulfate	78	2.0	0.10	mg/L	EPA 300.0		2	07/05/16 10:39	07/06/16 20:42	6070056	RLC
Metals, Total											
Antimony	ND	0.0030	0.0002	mg/L	EPA 6020B		1	07/01/16 08:45	07/01/16 17:55	6060788	KLH
Arsenic	ND	0.0050	0.0007	mg/L	EPA 6020B		1	07/01/16 08:45	07/01/16 17:55	6060788	KLH
Barium	0.0933	0.0100	0.0003	mg/L	EPA 6020B		1	07/01/16 08:45	07/01/16 17:55	6060788	KLH
Beryllium	ND	0.0030	0.00009	mg/L	EPA 6020B		1	07/01/16 08:45	07/01/16 17:55	6060788	KLH
Boron	1.25	0.100	0.0044	mg/L	EPA 6020B		1	07/01/16 08:45	07/01/16 17:55	6060788	KLH
Cadmium	ND	0.0010	0.0001	mg/L	EPA 6020B		1	07/01/16 08:45	07/01/16 17:55	6060788	KLH
Calcium	27.9	2.50	0.0628	mg/L	EPA 6020B	B-01	5	07/01/16 08:45	07/05/16 16:23	6060788	KLH
Chromium	0.0012	0.0100	0.0004	mg/L	EPA 6020B	J	1	07/01/16 08:45	07/01/16 17:55	6060788	KLH
Cobalt	ND	0.0100	0.0003	mg/L	EPA 6020B		1	07/01/16 08:45	07/01/16 17:55	6060788	KLH
Lead	0.00009	0.0050	0.00008	mg/L	EPA 6020B	J	1	07/01/16 08:45	07/01/16 17:55	6060788	KLH
Molybdenum	ND	0.0100	0.0005	mg/L	EPA 6020B		1	07/01/16 08:45	07/01/16 17:55	6060788	KLH
Selenium	ND	0.0100	0.0009	mg/L	EPA 6020B		1	07/01/16 08:45	07/01/16 17:55	6060788	KLH
Thallium	ND	0.0010	0.00006	mg/L	EPA 6020B		1	07/01/16 08:45	07/01/16 17:55	6060788	KLH
Lithium	ND	0.0500	0.0012	mg/L	EPA 6020B		1	07/01/16 08:45	07/01/16 17:55	6060788	KLH
Mercury	ND	0.00050	0.00013	mg/L	EPA 7470A		1	07/06/16 08:10	07/06/16 14:29	6070070	CSW



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Georgia Power
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 Atlanta GA, 30339

Attention: Mr. Joju Abraham

July 08, 2016

Report No.: AZF1167

Project: CCR Event

Client ID: SGWC-9

Lab Number ID: AZF1167-06

Date/Time Sampled: 6/29/2016 1:45:00PM

Date/Time Received: 6/30/2016 4:25:00PM

Matrix: Ground Water

Analyte	Result	RL	MDL	Units	Method	Qual.	DF	Preparation Date	Analytical Date	Batch	Init.
General Chemistry											
Total Dissolved Solids	562	25	10	mg/L	SM 2540 C		1	07/01/16 11:35	07/01/16 11:35	6070007	JPT
Inorganic Anions											
Chloride	9.0	0.25	0.01	mg/L	EPA 300.0	B-01	1	07/05/16 10:39	07/05/16 21:15	6070056	RLC
Fluoride	0.13	0.30	0.02	mg/L	EPA 300.0	J	1	07/05/16 10:39	07/05/16 21:15	6070056	RLC
Sulfate	280	10	0.51	mg/L	EPA 300.0		10	07/05/16 10:39	07/06/16 21:03	6070056	RLC
Metals, Total											
Antimony	ND	0.0030	0.0002	mg/L	EPA 6020B		1	07/01/16 08:45	07/01/16 18:10	6060788	KLH
Arsenic	0.0009	0.0050	0.0007	mg/L	EPA 6020B	J	1	07/01/16 08:45	07/01/16 18:10	6060788	KLH
Barium	0.0535	0.0100	0.0003	mg/L	EPA 6020B		1	07/01/16 08:45	07/01/16 18:10	6060788	KLH
Beryllium	ND	0.0030	0.00009	mg/L	EPA 6020B		1	07/01/16 08:45	07/01/16 18:10	6060788	KLH
Boron	1.52	0.100	0.0044	mg/L	EPA 6020B		1	07/01/16 08:45	07/01/16 18:10	6060788	KLH
Cadmium	ND	0.0010	0.0001	mg/L	EPA 6020B		1	07/01/16 08:45	07/01/16 18:10	6060788	KLH
Calcium	52.6	5.00	0.126	mg/L	EPA 6020B	B-01	10	07/01/16 08:45	07/05/16 16:48	6060788	KLH
Chromium	ND	0.0100	0.0004	mg/L	EPA 6020B		1	07/01/16 08:45	07/01/16 18:10	6060788	KLH
Cobalt	0.0147	0.0100	0.0003	mg/L	EPA 6020B		1	07/01/16 08:45	07/01/16 18:10	6060788	KLH
Lead	ND	0.0050	0.00008	mg/L	EPA 6020B		1	07/01/16 08:45	07/01/16 18:10	6060788	KLH
Molybdenum	0.0021	0.0100	0.0005	mg/L	EPA 6020B	J	1	07/01/16 08:45	07/01/16 18:10	6060788	KLH
Selenium	ND	0.0100	0.0009	mg/L	EPA 6020B		1	07/01/16 08:45	07/01/16 18:10	6060788	KLH
Thallium	ND	0.0010	0.00006	mg/L	EPA 6020B		1	07/01/16 08:45	07/01/16 18:10	6060788	KLH
Lithium	ND	0.0500	0.0012	mg/L	EPA 6020B		1	07/01/16 08:45	07/01/16 18:10	6060788	KLH
Mercury	ND	0.00050	0.00013	mg/L	EPA 7470A		1	07/06/16 08:10	07/06/16 14:31	6070070	CSW



PACE ANALYTICAL SERVICES, INC.

Environmental Monitoring & Laboratory Analysis
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Georgia Power
 2480 Maner Road
 Atlanta GA, 30339

Attention: Mr. Joju Abraham

July 08, 2016

Report No.: AZF1167

Project: CCR Event

Client ID: SGWC-23

Lab Number ID: AZF1167-07

Date/Time Sampled: 6/29/2016 10:18:00AM

Date/Time Received: 6/30/2016 4:25:00PM

Matrix: Ground Water

Analyte	Result	RL	MDL	Units	Method	Qual.	DF	Preparation Date	Analytical Date	Batch	Init.
General Chemistry											
Total Dissolved Solids	272	25	10	mg/L	SM 2540 C		1	07/01/16 11:35	07/01/16 11:35	6070007	JPT
Inorganic Anions											
Chloride	8.8	0.25	0.01	mg/L	EPA 300.0	B-01	1	07/05/16 10:39	07/05/16 22:58	6070056	RLC
Fluoride	0.04	0.30	0.02	mg/L	EPA 300.0	J	1	07/05/16 10:39	07/05/16 22:58	6070056	RLC
Sulfate	120	5.0	0.26	mg/L	EPA 300.0		5	07/05/16 10:39	07/06/16 21:25	6070056	RLC
Metals, Total											
Antimony	ND	0.0030	0.0002	mg/L	EPA 6020B		1	07/01/16 08:45	07/01/16 18:15	6060788	KLH
Arsenic	ND	0.0050	0.0007	mg/L	EPA 6020B		1	07/01/16 08:45	07/01/16 18:15	6060788	KLH
Barium	0.0957	0.0100	0.0003	mg/L	EPA 6020B		1	07/01/16 08:45	07/01/16 18:15	6060788	KLH
Beryllium	ND	0.0030	0.00009	mg/L	EPA 6020B		1	07/01/16 08:45	07/01/16 18:15	6060788	KLH
Boron	0.557	0.100	0.0044	mg/L	EPA 6020B		1	07/01/16 08:45	07/01/16 18:15	6060788	KLH
Cadmium	ND	0.0010	0.0001	mg/L	EPA 6020B		1	07/01/16 08:45	07/01/16 18:15	6060788	KLH
Calcium	25.6	2.50	0.0628	mg/L	EPA 6020B	B-01	5	07/01/16 08:45	07/05/16 16:54	6060788	KLH
Chromium	0.0013	0.0100	0.0004	mg/L	EPA 6020B	J	1	07/01/16 08:45	07/01/16 18:15	6060788	KLH
Cobalt	ND	0.0100	0.0003	mg/L	EPA 6020B		1	07/01/16 08:45	07/01/16 18:15	6060788	KLH
Lead	0.00009	0.0050	0.00008	mg/L	EPA 6020B	J	1	07/01/16 08:45	07/01/16 18:15	6060788	KLH
Molybdenum	ND	0.0100	0.0005	mg/L	EPA 6020B		1	07/01/16 08:45	07/01/16 18:15	6060788	KLH
Selenium	ND	0.0100	0.0009	mg/L	EPA 6020B		1	07/01/16 08:45	07/01/16 18:15	6060788	KLH
Thallium	ND	0.0010	0.00006	mg/L	EPA 6020B		1	07/01/16 08:45	07/01/16 18:15	6060788	KLH
Lithium	0.0027	0.0500	0.0012	mg/L	EPA 6020B	J	1	07/01/16 08:45	07/01/16 18:15	6060788	KLH
Mercury	ND	0.00050	0.00013	mg/L	EPA 7470A		1	07/06/16 08:10	07/06/16 14:33	6070070	CSW



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Georgia Power
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 Atlanta GA, 30339

Attention: Mr. Joju Abraham

July 08, 2016

Report No.: AZF1167

Project: CCR Event

Client ID: SGWC-20

Lab Number ID: AZF1167-08

Date/Time Sampled: 6/29/2016 12:58:00PM

Date/Time Received: 6/30/2016 4:25:00PM

Matrix: Ground Water

Analyte	Result	RL	MDL	Units	Method	Qual.	DF	Preparation Date	Analytical Date	Batch	Init.
General Chemistry											
Total Dissolved Solids	436	25	10	mg/L	SM 2540 C		1	07/01/16 11:35	07/01/16 11:35	6070007	JPT
Inorganic Anions											
Chloride	11	0.25	0.01	mg/L	EPA 300.0	B-01	1	07/05/16 10:39	07/05/16 23:19	6070056	RLC
Fluoride	0.45	0.30	0.02	mg/L	EPA 300.0		1	07/05/16 10:39	07/05/16 23:19	6070056	RLC
Sulfate	270	10	0.51	mg/L	EPA 300.0		10	07/05/16 10:39	07/06/16 21:46	6070056	RLC
Metals, Total											
Antimony	ND	0.0030	0.0002	mg/L	EPA 6020B		1	07/01/16 08:45	07/01/16 18:20	6060788	KLH
Arsenic	0.0018	0.0050	0.0007	mg/L	EPA 6020B	J	1	07/01/16 08:45	07/01/16 18:20	6060788	KLH
Barium	0.0466	0.0100	0.0003	mg/L	EPA 6020B		1	07/01/16 08:45	07/01/16 18:20	6060788	KLH
Beryllium	0.0007	0.0030	0.00009	mg/L	EPA 6020B	J	1	07/01/16 08:45	07/01/16 18:20	6060788	KLH
Boron	1.88	0.100	0.0044	mg/L	EPA 6020B		1	07/01/16 08:45	07/01/16 18:20	6060788	KLH
Cadmium	0.0001	0.0010	0.0001	mg/L	EPA 6020B	J	1	07/01/16 08:45	07/01/16 18:20	6060788	KLH
Calcium	15.8	2.50	0.0628	mg/L	EPA 6020B	B-01	5	07/01/16 08:45	07/01/16 18:30	6060788	KLH
Chromium	0.0009	0.0100	0.0004	mg/L	EPA 6020B	J	1	07/01/16 08:45	07/01/16 18:20	6060788	KLH
Cobalt	0.230	0.0100	0.0003	mg/L	EPA 6020B		1	07/01/16 08:45	07/01/16 18:20	6060788	KLH
Lead	0.0005	0.0050	0.00008	mg/L	EPA 6020B	J	1	07/01/16 08:45	07/01/16 18:20	6060788	KLH
Molybdenum	ND	0.0100	0.0005	mg/L	EPA 6020B		1	07/01/16 08:45	07/01/16 18:20	6060788	KLH
Selenium	0.0053	0.0100	0.0009	mg/L	EPA 6020B	J	1	07/01/16 08:45	07/01/16 18:20	6060788	KLH
Thallium	0.0002	0.0010	0.00006	mg/L	EPA 6020B	J	1	07/01/16 08:45	07/01/16 18:20	6060788	KLH
Lithium	0.0043	0.0500	0.0012	mg/L	EPA 6020B	J	1	07/01/16 08:45	07/01/16 18:20	6060788	KLH
Mercury	ND	0.00050	0.00013	mg/L	EPA 7470A		1	07/06/16 08:10	07/06/16 14:35	6070070	CSW



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 Atlanta GA, 30339

Attention: Mr. Joju Abraham

July 08, 2016

Report No.: AZF1167

Project: CCR Event

Client ID: EQB-7

Lab Number ID: AZF1167-09

Date/Time Sampled: 6/29/2016 1:58:00PM

Date/Time Received: 6/30/2016 4:25:00PM

Matrix: DI Water

Analyte	Result	RL	MDL	Units	Method	Qual.	DF	Preparation Date	Analytical Date	Batch	Init.
General Chemistry											
Total Dissolved Solids	ND	25	10	mg/L	SM 2540 C		1	07/01/16 11:35	07/01/16 11:35	6070007	JPT
Inorganic Anions											
Chloride	0.12	0.25	0.01	mg/L	EPA 300.0	B-01, J	1	07/05/16 10:39	07/05/16 23:40	6070056	RLC
Fluoride	ND	0.30	0.02	mg/L	EPA 300.0		1	07/05/16 10:39	07/05/16 23:40	6070056	RLC
Sulfate	0.20	1.0	0.05	mg/L	EPA 300.0	J	1	07/05/16 10:39	07/05/16 23:40	6070056	RLC
Metals, Total											
Antimony	ND	0.0030	0.0002	mg/L	EPA 6020B		1	07/01/16 08:45	07/01/16 18:25	6060788	KLH
Arsenic	ND	0.0050	0.0007	mg/L	EPA 6020B		1	07/01/16 08:45	07/01/16 18:25	6060788	KLH
Barium	0.0045	0.0100	0.0003	mg/L	EPA 6020B	J	1	07/01/16 08:45	07/01/16 18:25	6060788	KLH
Beryllium	ND	0.0030	0.00009	mg/L	EPA 6020B		1	07/01/16 08:45	07/01/16 18:25	6060788	KLH
Boron	0.0960	0.100	0.0044	mg/L	EPA 6020B	J	1	07/01/16 08:45	07/01/16 18:25	6060788	KLH
Cadmium	ND	0.0010	0.0001	mg/L	EPA 6020B		1	07/01/16 08:45	07/01/16 18:25	6060788	KLH
Calcium	1.31	0.500	0.0126	mg/L	EPA 6020B	B-01	1	07/01/16 08:45	07/01/16 18:25	6060788	KLH
Chromium	0.0006	0.0100	0.0004	mg/L	EPA 6020B	J	1	07/01/16 08:45	07/01/16 18:25	6060788	KLH
Cobalt	ND	0.0100	0.0003	mg/L	EPA 6020B		1	07/01/16 08:45	07/01/16 18:25	6060788	KLH
Lead	0.0003	0.0050	0.00008	mg/L	EPA 6020B	J	1	07/01/16 08:45	07/01/16 18:25	6060788	KLH
Molybdenum	ND	0.0100	0.0005	mg/L	EPA 6020B		1	07/01/16 08:45	07/01/16 18:25	6060788	KLH
Selenium	ND	0.0100	0.0009	mg/L	EPA 6020B		1	07/01/16 08:45	07/01/16 18:25	6060788	KLH
Thallium	ND	0.0010	0.00006	mg/L	EPA 6020B		1	07/01/16 08:45	07/01/16 18:25	6060788	KLH
Lithium	ND	0.0500	0.0012	mg/L	EPA 6020B		1	07/01/16 08:45	07/01/16 18:25	6060788	KLH
Mercury	ND	0.00050	0.00013	mg/L	EPA 7470A		1	07/06/16 08:10	07/06/16 14:38	6070070	CSW



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July 08, 2016

Report No.: AZF1167

General Chemistry - Quality Control

Analyte	Result	RL	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 6070007 - SM 2540 C											
Blank (6070007-BLK1)						Prepared & Analyzed: 07/01/16					
Total Dissolved Solids	ND	10	10	mg/L							
LCS (6070007-BS1)						Prepared & Analyzed: 07/01/16					
Total Dissolved Solids	383	10	10	mg/L	400.00		96	84-108			
Duplicate (6070007-DUP1)						Prepared & Analyzed: 07/01/16					
						Source: AZF1167-01					
Total Dissolved Solids	229	10	10	mg/L		214			7	10	



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Report No.: AZF1167

Inorganic Anions - Quality Control

Analyte	Result	RL	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 6070056 - EPA 300.0											
Blank (6070056-BLK1)						Prepared & Analyzed: 07/05/16					
Chloride	0.04	0.25	0.01	mg/L							J
Fluoride	ND	0.10	0.02	mg/L							
Sulfate	ND	1.0	0.05	mg/L							
LCS (6070056-BS1)						Prepared & Analyzed: 07/05/16					
Chloride	9.60	1.0	0.01	mg/L	10.010		96	90-110			
Fluoride	10.1	0.10	0.02	mg/L	10.010		101	90-110			
Sulfate	9.78	5.0	0.05	mg/L	10.010		98	90-110			
Matrix Spike (6070056-MS1)						Source: AZF1093-02 Prepared & Analyzed: 07/05/16					
Chloride	15.0	1.0	0.01	mg/L	10.010	5.43	95	90-110			
Fluoride	10.3	0.10	0.02	mg/L	10.010	0.15	101	90-110			
Sulfate	76.7	5.0	0.05	mg/L	10.010	74.5	23	90-110			QM-05
Matrix Spike (6070056-MS2)						Source: AZF1167-01 Prepared & Analyzed: 07/05/16					
Chloride	19.7	1.0	0.01	mg/L	10.010	9.74	100	90-110			
Fluoride	10.6	0.10	0.02	mg/L	10.010	0.04	106	90-110			
Sulfate	84.4	5.0	0.05	mg/L	10.010	82.5	19	90-110			QM-05
Matrix Spike Dup (6070056-MSD1)						Source: AZF1093-02 Prepared & Analyzed: 07/05/16					
Chloride	15.0	1.0	0.01	mg/L	10.010	5.43	95	90-110	0.08	15	
Fluoride	10.4	0.10	0.02	mg/L	10.010	0.15	102	90-110	0.7	15	
Sulfate	76.8	5.0	0.05	mg/L	10.010	74.5	23	90-110	0.1	15	QM-05



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Metals, Total - Quality Control

Analyte	Result	RL	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 6060788 - EPA 3005A											
Blank (6060788-BLK1)						Prepared & Analyzed: 07/01/16					
Antimony	ND	0.0030	0.0002	mg/L							
Arsenic	ND	0.0050	0.0007	mg/L							
Barium	ND	0.0100	0.0003	mg/L							
Beryllium	ND	0.0030	0.00009	mg/L							
Boron	ND	0.100	0.0044	mg/L							
Cadmium	ND	0.0010	0.0001	mg/L							
Calcium	0.0159	0.500	0.0126	mg/L							J
Chromium	ND	0.0100	0.0004	mg/L							
Cobalt	ND	0.0100	0.0003	mg/L							
Copper	ND	0.0250	0.0004	mg/L							
Lead	ND	0.0050	0.00008	mg/L							
Molybdenum	ND	0.0100	0.0005	mg/L							
Nickel	ND	0.0050	0.0005	mg/L							
Selenium	ND	0.0050	0.0009	mg/L							
Silver	ND	0.0050	0.0002	mg/L							
Thallium	ND	0.0010	0.00006	mg/L							
Vanadium	ND	0.0100	0.0016	mg/L							
Zinc	ND	0.0100	0.0013	mg/L							
Lithium	ND	0.0500	0.0012	mg/L							
LCS (6060788-BS1)						Prepared & Analyzed: 07/01/16					
Antimony	0.103	0.0030	0.0002	mg/L	0.10000		103	80-120			
Arsenic	0.0978	0.0050	0.0007	mg/L	0.10000		98	80-120			
Barium	0.0971	0.0100	0.0003	mg/L	0.10000		97	80-120			
Beryllium	0.0908	0.0030	0.00009	mg/L	0.10000		91	80-120			
Boron	0.899	0.100	0.0044	mg/L	1.0000		90	80-120			
Cadmium	0.0954	0.0010	0.0001	mg/L	0.10000		95	80-120			
Calcium	0.996	0.500	0.0126	mg/L	1.0000		100	80-120			
Chromium	0.0963	0.0100	0.0004	mg/L	0.10000		96	80-120			
Cobalt	0.0939	0.0100	0.0003	mg/L	0.10000		94	80-120			
Copper	0.0939	0.0250	0.0004	mg/L	0.10000		94	80-120			
Lead	0.0938	0.0050	0.00008	mg/L	0.10000		94	80-120			
Molybdenum	0.101	0.0100	0.0005	mg/L	0.10000		101	80-120			
Nickel	0.0914	0.0050	0.0005	mg/L	0.10000		91	80-120			
Selenium	0.0989	0.0050	0.0009	mg/L	0.10000		99	80-120			
Silver	0.0975	0.0050	0.0002	mg/L	0.10000		98	80-120			
Thallium	0.0924	0.0010	0.00006	mg/L	0.10000		92	80-120			
Vanadium	0.0943	0.0100	0.0016	mg/L	0.10000		94	80-120			
Zinc	0.0960	0.0100	0.0013	mg/L	0.10000		96	80-120			
Lithium	0.0896	0.0500	0.0012	mg/L	0.10000		90	80-120			



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Metals, Total - Quality Control

Analyte	Result	RL	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 6060788 - EPA 3005A											
Matrix Spike (6060788-MS1)			Source: AZF1093-10			Prepared & Analyzed: 07/01/16					
Antimony	0.0969	0.0030	0.0002	mg/L	0.10000	ND	97	75-125			
Arsenic	0.0972	0.0050	0.0007	mg/L	0.10000	0.0011	96	75-125			
Barium	0.140	0.0100	0.0003	mg/L	0.10000	0.0368	104	75-125			
Beryllium	0.0913	0.0030	0.00009	mg/L	0.10000	ND	91	75-125			
Boron	1.11	0.100	0.0044	mg/L	1.0000	0.250	86	75-125			
Cadmium	0.0976	0.0010	0.0001	mg/L	0.10000	ND	98	75-125			
Calcium	3.20	0.500	0.0126	mg/L	1.0000	2.22	98	75-125			
Chromium	0.0936	0.0100	0.0004	mg/L	0.10000	ND	94	75-125			
Cobalt	0.125	0.0100	0.0003	mg/L	0.10000	0.0319	93	75-125			
Copper	0.0915	0.0250	0.0004	mg/L	0.10000	ND	92	75-125			
Lead	0.0928	0.0050	0.00008	mg/L	0.10000	ND	93	75-125			
Molybdenum	0.101	0.0100	0.0005	mg/L	0.10000	ND	101	75-125			
Nickel	0.0925	0.0050	0.0005	mg/L	0.10000	0.0033	89	75-125			
Selenium	0.0969	0.0050	0.0009	mg/L	0.10000	ND	97	75-125			
Silver	0.0961	0.0050	0.0002	mg/L	0.10000	ND	96	75-125			
Thallium	0.0937	0.0010	0.00006	mg/L	0.10000	ND	94	75-125			
Vanadium	0.0946	0.0100	0.0016	mg/L	0.10000	ND	95	75-125			
Zinc	0.104	0.0100	0.0013	mg/L	0.10000	0.0098	94	75-125			
Lithium	0.0918	0.0500	0.0012	mg/L	0.10000	ND	92	75-125			
Matrix Spike Dup (6060788-MSD1)			Source: AZF1093-10			Prepared & Analyzed: 07/01/16					
Antimony	0.0995	0.0030	0.0002	mg/L	0.10000	ND	99	75-125	3	20	
Arsenic	0.0993	0.0050	0.0007	mg/L	0.10000	0.0011	98	75-125	2	20	
Barium	0.144	0.0100	0.0003	mg/L	0.10000	0.0368	108	75-125	3	20	
Beryllium	0.0883	0.0030	0.00009	mg/L	0.10000	ND	88	75-125	3	20	
Boron	1.09	0.100	0.0044	mg/L	1.0000	0.250	84	75-125	2	20	
Cadmium	0.0990	0.0010	0.0001	mg/L	0.10000	ND	99	75-125	1	20	
Calcium	3.08	0.500	0.0126	mg/L	1.0000	2.22	85	75-125	4	20	
Chromium	0.0957	0.0100	0.0004	mg/L	0.10000	ND	96	75-125	2	20	
Cobalt	0.129	0.0100	0.0003	mg/L	0.10000	0.0319	97	75-125	3	20	
Copper	0.0976	0.0250	0.0004	mg/L	0.10000	ND	98	75-125	6	20	
Lead	0.0932	0.0050	0.00008	mg/L	0.10000	ND	93	75-125	0.4	20	
Molybdenum	0.104	0.0100	0.0005	mg/L	0.10000	ND	104	75-125	3	20	
Nickel	0.0994	0.0050	0.0005	mg/L	0.10000	0.0033	96	75-125	7	20	
Selenium	0.0977	0.0050	0.0009	mg/L	0.10000	ND	98	75-125	0.9	20	
Silver	0.0949	0.0050	0.0002	mg/L	0.10000	ND	95	75-125	1	20	
Thallium	0.0924	0.0010	0.00006	mg/L	0.10000	ND	92	75-125	1	20	
Vanadium	0.0962	0.0100	0.0016	mg/L	0.10000	ND	96	75-125	2	20	
Zinc	0.107	0.0100	0.0013	mg/L	0.10000	0.0098	97	75-125	3	20	
Lithium	0.0925	0.0500	0.0012	mg/L	0.10000	ND	93	75-125	0.8	20	



PACE ANALYTICAL SERVICES, INC.

Environmental Monitoring & Laboratory Analysis
 110 Technology Parkway, Peachtree Corners, GA 30092
 (770) 734-4200 FAX (770) 734-4201

Georgia Power
 2480 Maner Road
 Atlanta GA, 30339

Attention: Mr. Joju Abraham

July 08, 2016

Report No.: AZF1167

Metals, Total - Quality Control

Analyte	Result	RL	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 6060788 - EPA 3005A											
Post Spike (6060788-PS1)			Source: AZF1093-10			Prepared & Analyzed: 07/01/16					
Antimony	95.5			ug/L	100.00	0.108	95	80-120			
Arsenic	102			ug/L	100.00	1.07	101	80-120			
Barium	149			ug/L	100.00	36.8	112	80-120			
Beryllium	94.0			ug/L	100.00	0.0221	94	80-120			
Boron	1120			ug/L	1000.0	250	87	80-120			
Cadmium	99.2			ug/L	100.00	-0.00008	99	80-120			
Calcium	3190			ug/L	1000.0	2220	97	80-120			
Chromium	101			ug/L	100.00	0.179	101	80-120			
Cobalt	132			ug/L	100.00	31.9	100	80-120			
Copper	98.2			ug/L	100.00	0.139	98	80-120			
Lead	94.9			ug/L	100.00	0.0032	95	80-120			
Molybdenum	106			ug/L	100.00	0.250	106	80-120			
Nickel	102			ug/L	100.00	3.29	99	80-120			
Selenium	102			ug/L	100.00	-0.278	102	80-120			
Silver	103			ug/L	100.00	0.0028	103	80-120			
Thallium	96.3			ug/L	100.00	0.0046	96	80-120			
Vanadium	99.3			ug/L	100.00	0.268	99	80-120			
Zinc	109			ug/L	100.00	9.85	99	80-120			
Lithium	93.4			ug/L	100.00	1.22	92	80-120			

Batch 6070070 - EPA 7470A

Blank (6070070-BLK1)					Prepared & Analyzed: 07/06/16						
Mercury	ND	0.00050	0.00013	mg/L							
LCS (6070070-BS1)					Prepared & Analyzed: 07/06/16						
Mercury	0.00240	0.00050	0.00013	mg/L	2.5000E-3		96	80-120			



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Georgia Power
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 Atlanta GA, 30339

Attention: Mr. Joju Abraham

July 08, 2016

Report No.: AZF1167

Metals, Total - Quality Control

Analyte	Result	RL	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 6070070 - EPA 7470A											
Matrix Spike (6070070-MS1)			Source: AZF1167-02			Prepared & Analyzed: 07/06/16					
Mercury	0.00234	0.00050	0.00013	mg/L	2.5000E-3	ND	94	75-125			
Matrix Spike Dup (6070070-MSD1)			Source: AZF1167-02			Prepared & Analyzed: 07/06/16					
Mercury	0.00225	0.00050	0.00013	mg/L	2.5000E-3	ND	90	75-125	4	20	
Post Spike (6070070-PS1)			Source: AZF1167-02			Prepared & Analyzed: 07/06/16					
Mercury	1.47			ug/L	1.6667	0.0340	86	80-120			



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Atlanta GA, 30339

Attention: Mr. Joju Abraham

July 08, 2016

Legend

Definition of Laboratory Terms

- ND** - Not Detected at levels equal to or greater than the MDL
BRL - Not Detected at levels equal to or greater than the RL
RL - Reporting Limit **MDL** - Method Detection Limit
SOP - Method run per Pace Standard Operating Procedure
CFU - Colony Forming Units
DF - Dilution Factor **TIC** - Tentatively Identified Compound

Sample Information

N-Nitrosodiphenylamine breaks down to diphenylamine in the GCMS; both analytes are reported as N-Nitrosodiphenylamine. Pace is not NELAC certified for N-Nitrosodiphenylamine.

Phthalic acid and phthalic anhydride are reported as dimethyl phthalate

Maleic acid and maleic anhydride are reported as dimethyl malate

1,2-Diphenylhydrazine breaks down to azobenzene in the GCMS; both analytes are reported as azobenzene

Definition of Qualifiers

- QM-05** The spike recovery was outside acceptance limits for the MS and/or MSD and/or PDS due to suspected matrix interference. Sample results for the QC batch were accepted based on acceptable LCS recoveries.
- J** Estimated value less than Reporting Limit (RL) but greater than Method Detection Limit(MDL) (CLP J-Flag).
- B-01** Analyte was detected in the associated method blank at an estimated level equal to or greater than the MDL. Sample values reported as greater than the MDL and less than 10x the method blank value are reported as estimated values.

Note: Unless otherwise noted, all results are reported on an as received basis.

Georgia Power Environmental Laboratory
 NELAP Certification #E57554
 2480 Maner Road, BIN 39110
 Atlanta, Georgia 30339
 Phone: (404) 799-2100
 Company: 8-530-2100

ANALYSIS REQUEST AND CHAIN OF CUSTODY RECORD

LAB USE ONLY

Work Order No. AZF1167
 Reviewed By: _____

Page 1 of 1

Sample Shipment Date: 6/30/16 Standard Turnaround Time
 Sample Received Date: _____
 Sampled By: Charles Watson # of Business Days (Rush) _____
 (Must be cleared through Env. Lab. Prior to shipment)

Company: Southern Company Services
 Report To: Joju Abraham
 Address: 241 Ralph McGill Blvd SE B10185
Atlanta, GA 30308
 Phone/Fax: 404-508-7239
 Contact: Joju Abraham
 Project Location: Plant Scherer
 Account Number: _____
 Special Instructions: Scherer AP CCR GW

Signature: _____
 Authorization to accept test results will be assumed acceptable by customer unless stated otherwise.

LAB USE ONLY LAB ID	Sample Number ¹⁴	Collection ¹⁵		Sample Description ¹⁶	Sample Type	Matrix	No. of Containers	ANALYSIS REQUESTED ²¹				Sample Type Key: ²² C-Cobalt O-Oils C-Capsule						
		Date	Time					HNO3 N	Ice I	HNO3 N	Other							
	SGWC-22	6/29/16	1111		G-GW		3	EPA 6020 & EPA 7470 Metals spp III & IV	CI, F, SO4 EPA 300	TDS SM2540C	Radium 226/228 SW-648 9315 & 9320							
	SGWC-19	6/29/16	1333		G-GW		3											
	DUP-7	6/29/16	---		G-GW		3											

LAB USE ONLY: Sample Receipt Information ²³	
Relinquished by: <u>[Signature]</u>	Date/Time: <u>6/30/16 650</u>
Received by: <u>[Signature]</u>	Date/Time: <u>6/30/16 0403</u>
Relinquished by: <u>[Signature]</u>	Date/Time: <u>6/30/16 0430</u>
Received by: <u>[Signature]</u>	Date/Time: <u>6-30-16 00830</u>

Relinquished By: Charles Watson 6/30/16 1625 T2°C Ice Present
 Seal Intact

6-30-16

Georgia Power Environmental Laboratory

NELAP Certification #E57554

2480 Maner Road, BIN 39110

Atlanta, Georgia 30339

Phone: (404) 799-2100

Company: 8-530-2100

Company: Southern Company Services

Report To: Joju Abraham

Address: 241 Ralph McGill Blvd SE B10185

Atlanta, GA 30308

Phone/Fax: 404-506-7239

Contact: Joju Abraham

Project Location: Plant Scherer

Account Number:

Special:

Instructions: Scherer AP CCR GW

ANALYSIS REQUEST AND CHAIN OF CUSTODY RECORD

LAB USE ONLY

Work Order No. AZF1167

Reviewed By:

11 Page 1 of 1

Sample Shipment Date: 6/30/16 X Standard Turnaround Time

Sample Received Date: 6/30/16

Sampled By: Miranda Scherer # of Business Days (Rush):
(Must be cleared through Env. Lab. prior to shipment)

Miranda Scherer
Signature

Agreement to subcontract analysis is assumed acceptable by customer unless stated otherwise.

LAB USE ONLY LAB ID	Sample Number ¹⁴	Collection ¹⁵		Sample Description ¹⁶	Sample Type	Matrix	No. of Containers	ANALYSIS REQUESTED ²¹			PRESERVATIVE ²⁰			Sample Type Key: 22 0:Lab 1:Soil 2:Sludge 3:Surface Water 4:Groundwater 5:Leachate 6:Other 7:Composite	Comments
		Date	Time					HNO3 N	Ice I	HNO3 N	0:Lab	1:Soil	2:Sludge		
		ANALYSIS REQUESTED ²¹							PRESERVATIVE ²⁰						
	SBWC-17	6/29/16	0826		G	3		X	X	X					4
	SBWC-21	6/29/16	1030		G	3		X	X	X					5
	SBWC-9	6/29/16	1345		G	3		X	X	X					6
LAB USE ONLY: Sample Receipt Information ²⁸															
Reinquished by: ²⁴		Date/Time: 6/30/16 0703													
Received by: ²⁷		Date/Time: 6/30/16 0703													
Reinquished by:		Date/Time: 6/30/16 0831													
Received by:		Date/Time: 6-30-16 0830													

Reinquished by: *Miranda Scherer* Date/Time: 6/30/16 0703
 Received by: *Joju Abraham* Date/Time: 6/30/16 0703
 Reinquished by: *Joju Abraham* Date/Time: 6/30/16 0831
 Received by: *Joju Abraham* Date/Time: 6-30-16 0830
 Requested By: *Joju Abraham*

Charles Fisher 6/30/16 1625 The Crescent
 Seal Intact

6-30-16



PACE ANALYTICAL SERVICES, INC.

Environmental Monitoring & Laboratory Analysis
110 Technology Parkway, Peachtree Corners, GA 30092
(770) 734-4200 FAX (770) 734-4201

LOG-IN CHECKLIST

Printed: 7/8/2016 2:18:43PM

Attn: Mr. Joju Abraham

Client: Georgia Power

Project: CCR Event

Date Received: 06/30/16 16:25

Work Order: AZF1167

Logged In By: Charles Hawks

OBSERVATIONS

#Samples: 9

#Containers: 27

Minimum Temp(C): 2.0

Maximum Temp(C): 2.0

Custody Seal(s) Used: Yes

CHECKLIST ITEMS

COC included with Samples	YES
Sample Container(s) Intact	YES
Chain of Custody Complete	YES
Sample Container(s) Match COC	YES
Custody seal Intact	YES
Temperature in Compliance	YES
Sufficient Sample Volume for Analysis	YES
Zero Headspace Maintained for VOA Analyses	YES
Samples labeled preserved (If Applicable)	YES
Samples received within Allowable Hold Times	YES
Samples Received on Ice	YES
Preservation Confirmed	YES

Comments:



PACE ANALYTICAL SERVICES, INC.

Environmental Monitoring & Laboratory Analysis
110 Technology Parkway, Peachtree Corners, GA 30092
(770) 734-4200 FAX (770) 734-4201

Laboratory Report

Prepared For:

**Georgia Power
2480 Maner Road
Atlanta, GA 30339**

Attention: Mr. Joju Abraham

Report Number: AZF0962

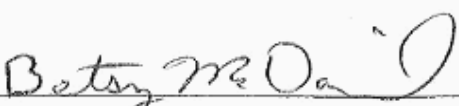
July 05, 2016

Project: CCR Event

Project #: Plant Scherer

We appreciate the opportunity to provide the analytical support for your project. The analytical results in this report are based upon information supplied by you, the client, and are for your exclusive use. If you have any questions regarding this data package, please do not hesitate to call.

Approved:



Project Manager

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All test results relate only to the samples analyzed.



PACE ANALYTICAL SERVICES, INC.

Environmental Monitoring & Laboratory Analysis
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(770) 734-4200 FAX (770) 734-4201

Georgia Power
2480 Maner Road
Atlanta GA, 30339

Attention: Mr. Joju Abraham

July 05, 2016

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
SGWA-3	AZF0962-01	Ground Water	06/24/16 09:50	06/27/16 12:35
SGWA-4	AZF0962-02	Ground Water	06/24/16 09:35	06/27/16 12:35
FB-5	AZF0962-03	DI Water	06/24/16 10:53	06/27/16 12:35



PACE ANALYTICAL SERVICES, INC.

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Georgia Power
 2480 Maner Road
 Atlanta GA, 30339

Attention: Mr. Joju Abraham

July 05, 2016

Report No.: AZF0962

Project: CCR Event

Client ID: SGWA-3

Lab Number ID: AZF0962-01

Date/Time Sampled: 6/24/2016 9:50:00AM

Date/Time Received: 6/27/2016 12:35:00PM

Matrix: Ground Water

Analyte	Result	RL	MDL	Units	Method	Qual.	DF	Preparation Date	Analytical Date	Batch	Init.
General Chemistry											
Total Dissolved Solids	39	25	10	mg/L	SM 2540 C		1	06/28/16 15:35	06/28/16 15:35	6060693	JPT
Inorganic Anions											
Chloride	3.5	0.25	0.01	mg/L	EPA 300.0	B-01	1	06/28/16 12:50	06/29/16 07:25	6060698	RLC
Fluoride	0.02	0.30	0.02	mg/L	EPA 300.0	J	1	06/28/16 12:50	06/29/16 07:25	6060698	RLC
Sulfate	2.3	1.0	0.05	mg/L	EPA 300.0		1	06/28/16 12:50	06/29/16 07:25	6060698	RLC
Metals, Total											
Antimony	0.0021	0.0030	0.0002	mg/L	EPA 6020B	B-01, J	1	06/29/16 08:15	06/29/16 12:03	6060710	CSW
Arsenic	ND	0.0050	0.0007	mg/L	EPA 6020B		1	06/29/16 08:15	06/29/16 12:03	6060710	CSW
Barium	0.0343	0.0100	0.0003	mg/L	EPA 6020B		1	06/29/16 08:15	06/29/16 12:03	6060710	CSW
Beryllium	ND	0.0030	0.00009	mg/L	EPA 6020B		1	06/29/16 08:15	06/29/16 12:03	6060710	CSW
Boron	0.0109	0.100	0.0044	mg/L	EPA 6020B	J	1	06/29/16 08:15	06/29/16 12:03	6060710	CSW
Cadmium	ND	0.0010	0.0001	mg/L	EPA 6020B		1	06/29/16 08:15	06/29/16 12:03	6060710	CSW
Calcium	5.55	0.500	0.0126	mg/L	EPA 6020B		1	06/29/16 08:15	06/29/16 12:03	6060710	CSW
Chromium	0.0053	0.0100	0.0004	mg/L	EPA 6020B	J	1	06/29/16 08:15	06/29/16 12:03	6060710	CSW
Cobalt	ND	0.0100	0.0003	mg/L	EPA 6020B		1	06/29/16 08:15	06/29/16 12:03	6060710	CSW
Lead	ND	0.0050	0.00008	mg/L	EPA 6020B		1	06/29/16 08:15	06/29/16 12:03	6060710	CSW
Molybdenum	ND	0.0100	0.0005	mg/L	EPA 6020B		1	06/29/16 08:15	06/29/16 12:03	6060710	CSW
Selenium	ND	0.0100	0.0009	mg/L	EPA 6020B		1	06/29/16 08:15	06/29/16 12:03	6060710	CSW
Thallium	0.0001	0.0010	0.00006	mg/L	EPA 6020B	J	1	06/29/16 08:15	06/29/16 12:03	6060710	CSW
Lithium	ND	0.0500	0.0012	mg/L	EPA 6020B		1	06/29/16 08:15	06/29/16 12:03	6060710	CSW
Mercury	ND	0.00050	0.00013	mg/L	EPA 7470A		1	06/28/16 09:40	06/29/16 16:23	6060684	CSW



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Georgia Power
 2480 Maner Road
 Atlanta GA, 30339

Attention: Mr. Joju Abraham

July 05, 2016

Report No.: AZF0962

Project: CCR Event

Client ID: SGWA-4

Lab Number ID: AZF0962-02

Date/Time Sampled: 6/24/2016 9:35:00AM

Date/Time Received: 6/27/2016 12:35:00PM

Matrix: Ground Water

Analyte	Result	RL	MDL	Units	Method	Qual.	DF	Preparation Date	Analytical Date	Batch	Init.
General Chemistry											
Total Dissolved Solids	78	25	10	mg/L	SM 2540 C		1	06/28/16 15:35	06/28/16 15:35	6060693	JPT
Inorganic Anions											
Chloride	1.8	0.25	0.01	mg/L	EPA 300.0	B-01	1	06/28/16 12:50	06/29/16 09:11	6060698	RLC
Fluoride	0.08	0.30	0.02	mg/L	EPA 300.0	J	1	06/28/16 12:50	06/29/16 09:11	6060698	RLC
Sulfate	3.0	1.0	0.05	mg/L	EPA 300.0		1	06/28/16 12:50	06/29/16 09:11	6060698	RLC
Metals, Total											
Antimony	0.0007	0.0030	0.0002	mg/L	EPA 6020B	B-01, J	1	06/29/16 08:15	06/29/16 12:08	6060710	CSW
Arsenic	ND	0.0050	0.0007	mg/L	EPA 6020B		1	06/29/16 08:15	06/29/16 12:08	6060710	CSW
Barium	0.0471	0.0100	0.0003	mg/L	EPA 6020B		1	06/29/16 08:15	06/29/16 12:08	6060710	CSW
Beryllium	ND	0.0030	0.00009	mg/L	EPA 6020B		1	06/29/16 08:15	06/29/16 12:08	6060710	CSW
Boron	0.0067	0.100	0.0044	mg/L	EPA 6020B	J	1	06/29/16 08:15	06/29/16 12:08	6060710	CSW
Cadmium	ND	0.0010	0.0001	mg/L	EPA 6020B		1	06/29/16 08:15	06/29/16 12:08	6060710	CSW
Calcium	14.2	2.50	0.0628	mg/L	EPA 6020B		5	06/29/16 08:15	06/30/16 12:15	6060710	CSW
Chromium	0.0015	0.0100	0.0004	mg/L	EPA 6020B	J	1	06/29/16 08:15	06/29/16 12:08	6060710	CSW
Cobalt	ND	0.0100	0.0003	mg/L	EPA 6020B		1	06/29/16 08:15	06/29/16 12:08	6060710	CSW
Lead	ND	0.0050	0.00008	mg/L	EPA 6020B		1	06/29/16 08:15	06/29/16 12:08	6060710	CSW
Molybdenum	0.0022	0.0100	0.0005	mg/L	EPA 6020B	J	1	06/29/16 08:15	06/29/16 12:08	6060710	CSW
Selenium	ND	0.0100	0.0009	mg/L	EPA 6020B		1	06/29/16 08:15	06/29/16 12:08	6060710	CSW
Thallium	ND	0.0010	0.00006	mg/L	EPA 6020B		1	06/29/16 08:15	06/29/16 12:08	6060710	CSW
Lithium	ND	0.0500	0.0012	mg/L	EPA 6020B		1	06/29/16 08:15	06/29/16 12:08	6060710	CSW
Mercury	ND	0.00050	0.00013	mg/L	EPA 7470A		1	06/28/16 09:40	06/29/16 16:26	6060684	CSW



PACE ANALYTICAL SERVICES, INC.

Environmental Monitoring & Laboratory Analysis
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 (770) 734-4200 FAX (770) 734-4201

Georgia Power
 2480 Maner Road
 Atlanta GA, 30339

Attention: Mr. Joju Abraham

July 05, 2016

Report No.: AZF0962

Project: CCR Event

Client ID: FB-5

Lab Number ID: AZF0962-03

Date/Time Sampled: 6/24/2016 10:53:00AM

Date/Time Received: 6/27/2016 12:35:00PM

Matrix: DI Water

Analyte	Result	RL	MDL	Units	Method	Qual.	DF	Preparation Date	Analytical Date	Batch	Init.
General Chemistry											
Total Dissolved Solids	ND	25	10	mg/L	SM 2540 C		1	06/28/16 15:35	06/28/16 15:35	6060693	JPT
Inorganic Anions											
Chloride	0.03	0.25	0.01	mg/L	EPA 300.0	B-01, J	1	06/28/16 12:50	06/29/16 09:32	6060698	RLC
Fluoride	ND	0.30	0.02	mg/L	EPA 300.0		1	06/28/16 12:50	06/29/16 09:32	6060698	RLC
Sulfate	ND	1.0	0.05	mg/L	EPA 300.0		1	06/28/16 12:50	06/29/16 09:32	6060698	RLC
Metals, Total											
Antimony	0.0003	0.0030	0.0002	mg/L	EPA 6020B	B-01, J	1	06/29/16 08:15	06/29/16 12:13	6060710	CSW
Arsenic	ND	0.0050	0.0007	mg/L	EPA 6020B		1	06/29/16 08:15	06/29/16 12:13	6060710	CSW
Barium	ND	0.0100	0.0003	mg/L	EPA 6020B		1	06/29/16 08:15	06/29/16 12:13	6060710	CSW
Beryllium	ND	0.0030	0.00009	mg/L	EPA 6020B		1	06/29/16 08:15	06/29/16 12:13	6060710	CSW
Boron	ND	0.100	0.0044	mg/L	EPA 6020B		1	06/29/16 08:15	06/29/16 12:13	6060710	CSW
Cadmium	ND	0.0010	0.0001	mg/L	EPA 6020B		1	06/29/16 08:15	06/29/16 12:13	6060710	CSW
Calcium	ND	0.500	0.0126	mg/L	EPA 6020B		1	06/29/16 08:15	06/29/16 12:13	6060710	CSW
Chromium	ND	0.0100	0.0004	mg/L	EPA 6020B		1	06/29/16 08:15	06/29/16 12:13	6060710	CSW
Cobalt	ND	0.0100	0.0003	mg/L	EPA 6020B		1	06/29/16 08:15	06/29/16 12:13	6060710	CSW
Lead	ND	0.0050	0.00008	mg/L	EPA 6020B		1	06/29/16 08:15	06/29/16 12:13	6060710	CSW
Molybdenum	ND	0.0100	0.0005	mg/L	EPA 6020B		1	06/29/16 08:15	06/29/16 12:13	6060710	CSW
Selenium	ND	0.0100	0.0009	mg/L	EPA 6020B		1	06/29/16 08:15	06/29/16 12:13	6060710	CSW
Thallium	ND	0.0010	0.00006	mg/L	EPA 6020B		1	06/29/16 08:15	06/29/16 12:13	6060710	CSW
Lithium	ND	0.0500	0.0012	mg/L	EPA 6020B		1	06/29/16 08:15	06/29/16 12:13	6060710	CSW
Mercury	ND	0.00050	0.00013	mg/L	EPA 7470A		1	06/28/16 09:40	06/29/16 16:28	6060684	CSW



PACE ANALYTICAL SERVICES, INC.

Environmental Monitoring & Laboratory Analysis
 110 Technology Parkway, Peachtree Corners, GA 30092
 (770) 734-4200 FAX (770) 734-4201

Georgia Power
 2480 Maner Road
 Atlanta GA, 30339

Attention: Mr. Joju Abraham

July 05, 2016

Report No.: AZF0962

General Chemistry - Quality Control

Analyte	Result	RL	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 6060693 - SM 2540 C											
Blank (6060693-BLK1)						Prepared & Analyzed: 06/28/16					
Total Dissolved Solids	ND	25	10	mg/L							
LCS (6060693-BS1)						Prepared & Analyzed: 06/28/16					
Total Dissolved Solids	396	25	10	mg/L	400.00		99	84-108			
Duplicate (6060693-DUP1)		Source: AZF0947-01				Prepared & Analyzed: 06/28/16					
Total Dissolved Solids	105	25	10	mg/L		118			12	10	QR-03



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 Atlanta GA, 30339

Attention: Mr. Joju Abraham

July 05, 2016

Report No.: AZF0962

Inorganic Anions - Quality Control

Analyte	Result	RL	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 6060698 - EPA 300.0											
Blank (6060698-BLK1)						Prepared: 06/28/16 Analyzed: 06/29/16					
Chloride	0.04	0.25	0.01	mg/L							J
Fluoride	ND	0.30	0.02	mg/L							
Sulfate	ND	1.0	0.05	mg/L							
LCS (6060698-BS1)						Prepared: 06/28/16 Analyzed: 06/29/16					
Chloride	9.68	0.25	0.01	mg/L	10.010		97	90-110			
Fluoride	10.2	0.30	0.02	mg/L	10.010		102	90-110			
Sulfate	9.90	1.0	0.05	mg/L	10.010		99	90-110			
Matrix Spike (6060698-MS1)						Source: AZF0947-02 Prepared: 06/28/16 Analyzed: 06/29/16					
Chloride	11.7	0.25	0.01	mg/L	10.010	2.10	96	90-110			
Fluoride	10.6	0.30	0.02	mg/L	10.010	ND	106	90-110			
Sulfate	10.3	1.0	0.05	mg/L	10.010	0.46	98	90-110			
Matrix Spike Dup (6060698-MSD1)						Source: AZF0947-02 Prepared: 06/28/16 Analyzed: 06/29/16					
Chloride	11.7	0.25	0.01	mg/L	10.010	2.10	96	90-110	0.03	15	
Fluoride	10.6	0.30	0.02	mg/L	10.010	ND	106	90-110	0.1	15	
Sulfate	10.3	1.0	0.05	mg/L	10.010	0.46	98	90-110	0.06	15	



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 110 Technology Parkway, Peachtree Corners, GA 30092
 (770) 734-4200 FAX (770) 734-4201

Georgia Power
 2480 Maner Road
 Atlanta GA, 30339

Attention: Mr. Joju Abraham

July 05, 2016

Report No.: AZF0962

Metals, Total - Quality Control

Analyte	Result	RL	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 6060684 - EPA 7470A											
Blank (6060684-BLK1)						Prepared: 06/28/16 Analyzed: 06/29/16					
Mercury	ND	0.00050	0.00013	mg/L							
LCS (6060684-BS1)						Prepared: 06/28/16 Analyzed: 06/29/16					
Mercury	0.00233	0.00050	0.00013	mg/L	2.5000E-3		93	80-120			
Matrix Spike (6060684-MS1)						Source: AZF0947-01 Prepared: 06/28/16 Analyzed: 06/29/16					
Mercury	0.00244	0.00050	0.00013	mg/L	2.5000E-3	ND	98	75-125			
Matrix Spike Dup (6060684-MSD1)						Source: AZF0947-01 Prepared: 06/28/16 Analyzed: 06/29/16					
Mercury	0.00226	0.00050	0.00013	mg/L	2.5000E-3	ND	90	75-125	8	20	
Post Spike (6060684-PS1)						Source: AZF0947-01 Prepared: 06/28/16 Analyzed: 06/29/16					
Mercury	1.45			ug/L	1.6667	0.00786	86	80-120			
Batch 6060710 - EPA 3005A											
Blank (6060710-BLK1)						Prepared & Analyzed: 06/29/16					
Antimony	0.0005	0.0030	0.0002	mg/L							J
Arsenic	ND	0.0050	0.0007	mg/L							
Barium	ND	0.0100	0.0003	mg/L							
Beryllium	ND	0.0030	0.00009	mg/L							
Boron	ND	0.100	0.0044	mg/L							
Cadmium	ND	0.0010	0.0001	mg/L							
Calcium	ND	0.500	0.0126	mg/L							
Chromium	ND	0.0100	0.0004	mg/L							
Cobalt	ND	0.0100	0.0003	mg/L							
Copper	ND	0.0250	0.0004	mg/L							
Lead	ND	0.0050	0.00008	mg/L							
Molybdenum	ND	0.0100	0.0005	mg/L							
Nickel	ND	0.0100	0.0005	mg/L							
Selenium	ND	0.0100	0.0009	mg/L							
Silver	ND	0.0100	0.0002	mg/L							
Thallium	ND	0.0010	0.00006	mg/L							
Vanadium	ND	0.0100	0.0016	mg/L							
Zinc	ND	0.0100	0.0013	mg/L							
Lithium	ND	0.0500	0.0012	mg/L							



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Georgia Power
 2480 Maner Road
 Atlanta GA, 30339

Attention: Mr. Joju Abraham

July 05, 2016

Report No.: AZF0962

Metals, Total - Quality Control

Analyte	Result	RL	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 6060710 - EPA 3005A											
LCS (6060710-BS1)						Prepared & Analyzed: 06/29/16					
Antimony	0.0988	0.0030	0.0002	mg/L	0.10000		99	80-120			
Arsenic	0.0957	0.0050	0.0007	mg/L	0.10000		96	80-120			
Barium	0.0938	0.0100	0.0003	mg/L	0.10000		94	80-120			
Beryllium	0.0997	0.0030	0.00009	mg/L	0.10000		100	80-120			
Boron	0.951	0.100	0.0044	mg/L	1.0000		95	80-120			
Cadmium	0.0985	0.0010	0.0001	mg/L	0.10000		98	80-120			
Calcium	0.958	0.500	0.0126	mg/L	1.0000		96	80-120			
Chromium	0.0992	0.0100	0.0004	mg/L	0.10000		99	80-120			
Cobalt	0.0933	0.0100	0.0003	mg/L	0.10000		93	80-120			
Copper	0.0955	0.0250	0.0004	mg/L	0.10000		95	80-120			
Lead	0.0927	0.0050	0.00008	mg/L	0.10000		93	80-120			
Molybdenum	0.0960	0.0100	0.0005	mg/L	0.10000		96	80-120			
Nickel	0.0929	0.0100	0.0005	mg/L	0.10000		93	80-120			
Selenium	0.0952	0.0100	0.0009	mg/L	0.10000		95	80-120			
Silver	0.0981	0.0100	0.0002	mg/L	0.10000		98	80-120			
Thallium	0.0941	0.0010	0.00006	mg/L	0.10000		94	80-120			
Vanadium	0.0968	0.0100	0.0016	mg/L	0.10000		97	80-120			
Zinc	0.0955	0.0100	0.0013	mg/L	0.10000		96	80-120			
Lithium	0.101	0.0500	0.0012	mg/L	0.10000		101	80-120			
Matrix Spike (6060710-MS1)											
				Source: AZF1000-01		Prepared & Analyzed: 06/29/16					
Antimony	0.0998	0.0030	0.0002	mg/L	0.10000	0.0003	99	75-125			
Arsenic	0.0952	0.0050	0.0007	mg/L	0.10000	ND	95	75-125			
Barium	0.123	0.0100	0.0003	mg/L	0.10000	0.0253	98	75-125			
Beryllium	0.0905	0.0030	0.00009	mg/L	0.10000	ND	91	75-125			
Boron	0.902	0.100	0.0044	mg/L	1.0000	0.0052	90	75-125			
Cadmium	0.0950	0.0010	0.0001	mg/L	0.10000	ND	95	75-125			
Calcium	9.69	0.500	0.0126	mg/L	1.0000	9.16	53	75-125			QM-02
Chromium	0.0980	0.0100	0.0004	mg/L	0.10000	ND	98	75-125			
Cobalt	0.106	0.0100	0.0003	mg/L	0.10000	0.0099	96	75-125			
Copper	0.0964	0.0250	0.0004	mg/L	0.10000	ND	96	75-125			
Lead	0.0898	0.0050	0.00008	mg/L	0.10000	ND	90	75-125			
Molybdenum	0.0995	0.0100	0.0005	mg/L	0.10000	ND	99	75-125			
Nickel	0.0969	0.0100	0.0005	mg/L	0.10000	0.0025	94	75-125			
Selenium	0.0953	0.0100	0.0009	mg/L	0.10000	ND	95	75-125			
Silver	0.0949	0.0100	0.0002	mg/L	0.10000	ND	95	75-125			
Thallium	0.0908	0.0010	0.00006	mg/L	0.10000	ND	91	75-125			
Vanadium	0.100	0.0100	0.0016	mg/L	0.10000	0.0025	98	75-125			
Zinc	0.0976	0.0100	0.0013	mg/L	0.10000	0.0035	94	75-125			
Lithium	0.0912	0.0500	0.0012	mg/L	0.10000	ND	91	75-125			



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Environmental Monitoring & Laboratory Analysis
 110 Technology Parkway, Peachtree Corners, GA 30092
 (770) 734-4200 FAX (770) 734-4201

Georgia Power
 2480 Maner Road
 Atlanta GA, 30339

Attention: Mr. Joju Abraham

July 05, 2016

Report No.: AZF0962

Metals, Total - Quality Control

Analyte	Result	RL	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 6060710 - EPA 3005A											
Matrix Spike Dup (6060710-MSD1)		Source: AZF1000-01				Prepared & Analyzed: 06/29/16					
Antimony	0.0992	0.0030	0.0002	mg/L	0.10000	0.0003	99	75-125	0.5	20	
Arsenic	0.0950	0.0050	0.0007	mg/L	0.10000	ND	95	75-125	0.2	20	
Barium	0.117	0.0100	0.0003	mg/L	0.10000	0.0253	92	75-125	5	20	
Beryllium	0.0937	0.0030	0.00009	mg/L	0.10000	ND	94	75-125	3	20	
Boron	0.954	0.100	0.0044	mg/L	1.0000	0.0052	95	75-125	6	20	
Cadmium	0.0951	0.0010	0.0001	mg/L	0.10000	ND	95	75-125	0.07	20	
Calcium	11.1	2.50	0.0628	mg/L	1.0000	9.16	194	75-125	14	20	QM-02
Chromium	0.101	0.0100	0.0004	mg/L	0.10000	ND	101	75-125	3	20	
Cobalt	0.106	0.0100	0.0003	mg/L	0.10000	0.0099	96	75-125	0.07	20	
Copper	0.0964	0.0250	0.0004	mg/L	0.10000	ND	96	75-125	0.04	20	
Lead	0.0923	0.0050	0.00008	mg/L	0.10000	ND	92	75-125	3	20	
Molybdenum	0.0972	0.0100	0.0005	mg/L	0.10000	ND	97	75-125	2	20	
Nickel	0.0993	0.0100	0.0005	mg/L	0.10000	0.0025	97	75-125	2	20	
Selenium	0.0917	0.0100	0.0009	mg/L	0.10000	ND	92	75-125	4	20	
Silver	0.0953	0.0100	0.0002	mg/L	0.10000	ND	95	75-125	0.5	20	
Thallium	0.0919	0.0010	0.00006	mg/L	0.10000	ND	92	75-125	1	20	
Vanadium	0.104	0.0100	0.0016	mg/L	0.10000	0.0025	102	75-125	4	20	
Zinc	0.101	0.0100	0.0013	mg/L	0.10000	0.0035	97	75-125	3	20	
Lithium	0.0914	0.0500	0.0012	mg/L	0.10000	ND	91	75-125	0.3	20	
Post Spike (6060710-PS1)		Source: AZF1000-01				Prepared & Analyzed: 06/29/16					
Antimony	89.3			ug/L	100.00	0.296	89	80-120			
Arsenic	96.5			ug/L	100.00	0.642	96	80-120			
Barium	117			ug/L	100.00	25.3	91	80-120			
Beryllium	93.6			ug/L	100.00	0.0173	94	80-120			
Boron	926			ug/L	1000.0	5.20	92	80-120			
Cadmium	95.9			ug/L	100.00	0.0003	96	80-120			
Calcium	10600			ug/L	1000.0	9160	147	80-120			QM-02
Chromium	99.2			ug/L	100.00	-0.798	100	80-120			
Cobalt	105			ug/L	100.00	9.93	95	80-120			
Copper	94.7			ug/L	100.00	0.385	94	80-120			
Lead	89.6			ug/L	100.00	0.0574	90	80-120			
Molybdenum	97.3			ug/L	100.00	0.0961	97	80-120			
Nickel	97.7			ug/L	100.00	2.52	95	80-120			
Selenium	92.4			ug/L	100.00	-0.0284	92	80-120			
Silver	93.5			ug/L	100.00	0.0065	94	80-120			
Thallium	91.5			ug/L	100.00	0.0181	91	80-120			
Vanadium	103			ug/L	100.00	2.46	100	80-120			
Zinc	97.0			ug/L	100.00	3.50	93	80-120			
Lithium	90.1			ug/L	100.00	0.666	89	80-120			



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Georgia Power
2480 Maner Road
Atlanta GA, 30339

Attention: Mr. Joju Abraham

July 05, 2016

Legend

Definition of Laboratory Terms

- ND** - Not Detected at levels equal to or greater than the MDL
BRL - Not Detected at levels equal to or greater than the RL
RL - Reporting Limit **MDL** - Method Detection Limit
SOP - Method run per Pace Standard Operating Procedure
CFU - Colony Forming Units
DF - Dilution Factor **TIC** - Tentatively Identified Compound

Sample Information

N-Nitrosodiphenylamine breaks down to diphenylamine in the GCMS; both analytes are reported as N-Nitrosodiphenylamine. Pace is not NELAC certified for N-Nitrosodiphenylamine.

Phthalic acid and phthalic anhydride are reported as dimethyl phthalate

Maleic acid and maleic anhydride are reported as dimethyl malate

1,2-Diphenylhydrazine breaks down to azobenzene in the GCMS; both analytes are reported as azobenzene

Definition of Qualifiers

- QR-03** The RPD value for the sample duplicate or MS/MSD was outside of QC acceptance limits due to suspected matrix interference and/or non-homogeneous sample matrix.
- QM-02** The spike recovery is outside acceptance limits due to insignificant spike amount as compared to sample concentration.
- J** Estimated value less than Reporting Limit (RL) but greater than Method Detection Limit(MDL) (CLP J-Flag).
- B-01** Analyte was detected in the associated method blank at an estimated level equal to or greater than the MDL. Sample values reported as greater than the MDL and less than 10x the method blank value are reported as estimated values.

Note: Unless otherwise noted, all results are reported on an as received basis.

Georgia Power Environmental Laboratory
 NELAP Certification #E57554
 2480 Maner Road, BIN 39110
 Atlanta, Georgia 30339
 Phone: (404) 799-2100
 Company: 8-530-2100

ANALYSIS REQUEST AND CHAIN OF CUSTODY RECORD

LAB USE ONLY

Work Order No. A2F0962
 Reviewed By: _____

Page 1 of 1

Sample Shipment Date:⁸ 6/24/16 ¹² Standard Turnaround Time
 Sample Received Date:⁹ _____
 Sampled By:¹⁰ Charles Watson # of Business Days (Rush) _____
 (Must be cleared through Env. Lab. Prior to shipment)

Company:¹ Southern Company Services
 Report To: Joju Abraham
 Address:² 241 Ralph McGill Blvd SE B10185
 Atlanta, GA 30308
 Phone/Fax:³ 404-506-7239
 Contact:⁴ Joju Abraham
 Project Location:⁵ Plant Scherer
 Account Number:⁶ _____
 Special Instructions:⁷ Scherer AP_CCR GW

LAB USE ONLY LAB ID	Sample Number ¹⁴	Collection ¹⁵		Sample Description ¹⁶	Matrix	No. of Containers ¹⁸	ANALYSIS REQUESTED ²¹			PRESERVATIVE ²⁰			Sample Type Key: ²² 0-06 0-08 0-09 0-10 0-11 0-12 0-13 0-14 0-15 0-16 0-17 0-18 0-19 0-20 0-21 0-22 0-23 0-24 0-25 0-26 0-27 0-28 0-29 0-30 0-31 0-32 0-33 0-34 0-35 0-36 0-37 0-38 0-39 0-40 0-41 0-42 0-43 0-44 0-45 0-46 0-47 0-48 0-49 0-50 0-51 0-52 0-53 0-54 0-55 0-56 0-57 0-58 0-59 0-60 0-61 0-62 0-63 0-64 0-65 0-66 0-67 0-68 0-69 0-70 0-71 0-72 0-73 0-74 0-75 0-76 0-77 0-78 0-79 0-80 0-81 0-82 0-83 0-84 0-85 0-86 0-87 0-88 0-89 0-90 0-91 0-92 0-93 0-94 0-95 0-96 0-97 0-98 0-99 0-100	Comments
		Date	Time				HNO3	Ice	HNO3	N	I	N		
		ANALYSIS REQUESTED ²¹					PRESERVATIVE ²⁰							
	SGWA-3	6/24/16	0950	EPA 6020 & EPA 7470 Metals app. III & IV Cl, F, SO4 EPA 300 TDS SM2540C Radium 226/228; SW-846 9315 & 9320	G-W	3	X	X	X					

Relinquished by:²⁶ Cen Date/Time: 6/24/16 1342
 Received by:²⁷ Wah Buan Date/Time: 6/24/16 1322
 Relinquished by: [Signature] Date/Time: 6/24/16 1545
 Received by: [Signature] Date/Time: 6-24-16 01545

* Matrix Analysis was notified @ 12:08 via email by Charles Watson. No Residue received from this lab by the time, Wah Buan stopped samples off at Lab (15:30) WB 6/24/16

Georgia Power Environmental Laboratory
 NELAP Certification #E57554
 2480 Maner Road, BIN 39110
 Atlanta, Georgia 30339
 Phone: (404) 799-2100
 Company: 8-530-2100

ANALYSIS REQUEST AND CHAIN OF CUSTODY RECORD

LAB USE ONLY

Work Order No. AZF0962
 Reviewed By: _____

Page 1 of 1

Sample Shipment Date: 6/24/16
 Sample Received Date: _____
 Standard Turnaround Time

Company: Southern Company Services
 Report To: Joju Abraham
 Address: 241 Ralph McGill Blvd SE B10185
Atlanta, GA 30308
 Phone/Fax: 404-506-7239
 Contact: Joju Abraham
 Project Location: Plant Scherer
 Account Number: _____
 Special Instructions: Scherer AP CCR GW

Sampled By: Wesley Bowen
 # of Business Days (Rush): _____
 (Must be cleared through Env. Lab. Prior to shipment)

LAB USE ONLY LAB ID	Sample Number ¹⁴	Collection ¹⁵		Sample Description ¹⁶	Sample Type	Matrix	No. of Containers	ANALYSIS REQUESTED ²¹		PRESERVATIVE ²⁰		Sample Type Key: 22 0-01e 0-02e C-Composite
		Date	Time					HNO3 N	Ice I	HNO3 N		
	SGWA-4	6/24/16	0935		GW		3	EPA 6020 & EPA 7470 Metals app. III & IV	CL, F, SO4 EPA 300 TDS SM2540C	Radium 226/228 SW-846 9315 & 9320		Matrix Key: 23 0-01e 0-02e B-Soil W-Water SW-1000e Water SW-1000e Other SW-1000e Other SW-1000e Other SW-1000e Other SW-1000e Other
	FB-5	6/24/16	1053	Field Blgk	DW		3					Preservative Key: 24 0-01e 0-02e B-Soil W-Water SW-1000e Water SW-1000e Other SW-1000e Other SW-1000e Other SW-1000e Other SW-1000e Other
												LAB USE ONLY ²⁵ Comments 3 3

Relinquished by: [Signature] Date/Time: 6/24/16 1543
 Received by: [Signature] Date/Time: 6-24-16 01545
 Relinquished by: [Signature] Date/Time: 6-27-16 01000
 Received by: _____ Date/Time: _____

Maria Padilla was notified @ 1:00P via email by Chris Watson. No response from Maria by the time Wesley Bowen dropped samples off at lab. (5:30) - WS 6/24/16

July 26, 2016

Maria Padilla
GA Power
2480 Maner Rd
Atlanta, GA 30339

RE: Project: Plant Scherer
Pace Project No.: 30187843

Dear Maria Padilla:

Enclosed are the analytical results for sample(s) received by the laboratory on June 27, 2016. The results relate only to the samples included in this report. Results reported herein conform to the most current TNI standards and the laboratory's Quality Assurance Manual, where applicable, unless otherwise noted in the body of the report.

If you have any questions concerning this report, please feel free to contact me.

Sincerely,



Jacquelyn Collins
jacquelyn.collins@pacelabs.com
Project Manager

Enclosures



REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc..

CERTIFICATIONS

Project: Plant Scherer

Pace Project No.: 30187843

Pennsylvania Certification IDs

1638 Roseytown Rd Suites 2,3&4, Greensburg, PA 15601

L-A-B DOD-ELAP Accreditation #: L2417

Alabama Certification #: 41590

Arizona Certification #: AZ0734

Arkansas Certification

California Certification #: 04222CA

Colorado Certification

Connecticut Certification #: PH-0694

Delaware Certification

Florida/TNI Certification #: E87683

Georgia Certification #: C040

Guam Certification

Hawaii Certification

Idaho Certification

Illinois Certification

Indiana Certification

Iowa Certification #: 391

Kansas/TNI Certification #: E-10358

Kentucky Certification #: 90133

Louisiana DHH/TNI Certification #: LA140008

Louisiana DEQ/TNI Certification #: 4086

Maine Certification #: PA00091

Maryland Certification #: 308

Massachusetts Certification #: M-PA1457

Michigan/PADEP Certification

Missouri Certification #: 235

Montana Certification #: Cert 0082

Nebraska Certification #: NE-05-29-14

Nevada Certification #: PA014572015-1

New Hampshire/TNI Certification #: 2976

New Jersey/TNI Certification #: PA 051

New Mexico Certification #: PA01457

New York/TNI Certification #: 10888

North Carolina Certification #: 42706

North Dakota Certification #: R-190

Oregon/TNI Certification #: PA200002

Pennsylvania/TNI Certification #: 65-00282

Puerto Rico Certification #: PA01457

Rhode Island Certification #: 65-00282

South Dakota Certification

Tennessee Certification #: TN2867

Texas/TNI Certification #: T104704188-14-8

Utah/TNI Certification #: PA014572015-5

USDA Soil Permit #: P330-14-00213

Vermont Dept. of Health: ID# VT-0282

Virgin Island/PADEP Certification

Virginia/VELAP Certification #: 460198

Washington Certification #: C868

West Virginia DEP Certification #: 143

West Virginia DHHR Certification #: 9964C

Wisconsin Certification

Wyoming Certification #: 8TMS-L

REPORT OF LABORATORY ANALYSIS

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SAMPLE SUMMARY

Project: Plant Scherer
Pace Project No.: 30187843

Lab ID	Sample ID	Matrix	Date Collected	Date Received
30187843001	SGWA-1	Water	06/23/16 10:24	06/27/16 10:30
30187843002	SGWA-2	Water	06/23/16 15:05	06/27/16 10:30

REPORT OF LABORATORY ANALYSIS

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SAMPLE ANALYTE COUNT

Project: Plant Scherer
Pace Project No.: 30187843

Lab ID	Sample ID	Method	Analysts	Analytes Reported
30187843001	SGWA-1	EPA 9315	RMK	1
		EPA 9320	JLW	1
		Total Radium Calculation	CMC	1
30187843002	SGWA-2	EPA 9315	RMK	1
		EPA 9320	JLW	1
		Total Radium Calculation	CMC	1

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: Plant Scherer

Pace Project No.: 30187843

Parameters		Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
Sample: SGWA-1		Lab ID: 30187843001	Collected: 06/23/16 10:24	Received: 06/27/16 10:30	Matrix: Water		
PWS:		Site ID:	Sample Type:				
Radium-226	EPA 9315	0.100 ± 0.113 (0.232)	pCi/L	07/25/16 07:49	13982-63-3		
Radium-228	EPA 9320	-0.0230 ± 0.278 (0.652)	pCi/L	07/25/16 16:51	15262-20-1		
Total Radium	Total Radium Calculation	0.000 ± 0.391 (0.884)	pCi/L	07/26/16 14:41	7440-14-4		

Parameters		Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
Sample: SGWA-2		Lab ID: 30187843002	Collected: 06/23/16 15:05	Received: 06/27/16 10:30	Matrix: Water		
PWS:		Site ID:	Sample Type:				
Radium-226	EPA 9315	0.000 ± 0.0881 (0.239)	pCi/L	07/25/16 07:49	13982-63-3		
Radium-228	EPA 9320	0.155 ± 0.315 (0.696)	pCi/L	07/25/16 16:52	15262-20-1		
Total Radium	Total Radium Calculation	0.155 ± 0.403 (0.935)	pCi/L	07/26/16 14:41	7440-14-4		

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL - RADIOCHEMISTRY

Project: Plant Scherer

Pace Project No.: 30187843

QC Batch: 226713

Analysis Method: EPA 9320

QC Batch Method: EPA 9320

Analysis Description: 9320 Radium 228

Associated Lab Samples: 30187843001, 30187843002

METHOD BLANK: 1110829

Matrix: Water

Associated Lab Samples: 30187843001, 30187843002

Parameter	Act ± Unc (MDC) Carr Trac	Units	Analyzed	Qualifiers
Radium-228	0.547 ± 0.363 (0.688) C:86% T:81%	pCi/L	07/25/16 12:44	

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL - RADIOCHEMISTRY

Project: Plant Scherer

Pace Project No.: 30187843

QC Batch: 226340

Analysis Method: EPA 9315

QC Batch Method: EPA 9315

Analysis Description: 9315 Total Radium

Associated Lab Samples: 30187843001, 30187843002

METHOD BLANK: 1108957

Matrix: Water

Associated Lab Samples: 30187843001, 30187843002

Parameter	Act ± Unc (MDC) Carr Trac	Units	Analyzed	Qualifiers
Radium-226	0.00738 ± 0.0837 (0.222) C:95% T:NA	pCi/L	07/25/16 07:48	

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

REPORT OF LABORATORY ANALYSIS

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QUALIFIERS

Project: Plant Scherer

Pace Project No.: 30187843

DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to dilution of the sample aliquot.

ND - Not Detected at or above adjusted reporting limit.

J - Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit.

MDL - Adjusted Method Detection Limit.

PQL - Practical Quantitation Limit.

RL - Reporting Limit.

S - Surrogate

1,2-Diphenylhydrazine decomposes to and cannot be separated from Azobenzene using Method 8270. The result for each analyte is a combined concentration.

Consistent with EPA guidelines, unrounded data are displayed and have been used to calculate % recovery and RPD values.

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

U - Indicates the compound was analyzed for, but not detected.

N-Nitrosodiphenylamine decomposes and cannot be separated from Diphenylamine using Method 8270. The result reported for each analyte is a combined concentration.

Act - Activity

Unc - Uncertainty: SDWA = 1.96 sigma count uncertainty, all other matrices = Expanded Uncertainty (95% confidence interval).

Gamma Spec = Expanded Uncertainty (95.4% Confidence Interval)

(MDC) - Minimum Detectable Concentration

Trac - Tracer Recovery (%)

Carr - Carrier Recovery (%)

Pace Analytical is TNI accredited. Contact your Pace PM for the current list of accredited analytes.

TNI - The NELAC Institute.

REPORT OF LABORATORY ANALYSIS

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Sample Condition Upon Receipt Pittsburgh



30187843

Client Name: GA Power Project # _____

Courier: Fed Ex UPS USPS Client Commercial Pace Other _____

Tracking #: 6812 5097 2714 | 6812 5097 2703

Custody Seal on Cooler/Box Present: yes no Seals intact: yes no

Thermometer Used N/A Type of Ice: Wet Blue None

Cooler Temperature Observed Temp N/A °C Correction Factor: N/A °C Final Temp: N/A °C

Temp should be above freezing to 6°C

Date and Initials of person examining contents: RTB 6/27/16

Comments:

	Yes	No	N/A	
Chain of Custody Present:	X			1.
Chain of Custody Filled Out:	X			2.
Chain of Custody Relinquished:	X			3.
Sampler Name & Signature on COC:	X			4.
Sample Labels match COC: -Includes date/time/ID/Analysis Matrix: <u>WT</u>	X			5.
Samples Arrived within Hold Time:	X			6.
Short Hold Time Analysis (<72hr remaining):		X		7.
Rush Turn Around Time Requested:		X		8.
Sufficient Volume:	X			9.
Correct Containers Used: -Pace Containers Used:	X X			10.
Containers Intact:	X			11.
Filtered volume received for Dissolved tests			X	12.
All containers needing preservation have been checked.	X			13. <u>pH < 2</u>
All containers needing preservation are found to be in compliance with EPA recommendation.	X			
exceptions: VOA, coliform, TOC, O&G, Phenolics				Initial when completed <u>6/27/16</u> Date/time of preservation <u>RTB</u>
				Lot # of added preservative
Headspace in VOA Vials (>6mm):			X	14.
Trip Blank Present:			X	15.
Trip Blank Custody Seals Present			X	

Client Notification/ Resolution:

Person Contacted: _____ Date/Time: _____ Contacted By: _____

Comments/ Resolution: _____

Note: Whenever there is a discrepancy affecting North Carolina compliance samples, a copy of this form will be sent to the North Carolina DEHNR Certification Office (i.e out of hold, incorrect preservative, out of temp, incorrect containers)

Quality Control Sample Performance Assessment



Analyst Must Manually Enter All Fields Highlighted in Yellow.

Test: Ra-226
Analyst: RMK
Date: 7/20/2016
Worklist: 30360
Matrix: DW

Method Blank Assessment

MB Sample ID: 1108957
MB concentration: 0.007
MB Counting Uncertainty: 0.084
MB MDC: 0.222
MB Numerical Performance Indicator: 0.17
MB Status vs Numerical Indicator: N/A
MB Status vs MDC: Pass

Laboratory Control Sample Assessment

Count Date:	Spike I.D.:	Spike Concentration (pCi/mL):	Volume Used (mL):	Aliquot Volume (L, g, F):	Target Conc. (pCi/L, g, F):	Uncertainty (Calculated):	Result (pCi/L, g, F):	LCS/LCSD Counting Uncertainty (pCi/L, g, F):	Percent Recovery:	Numerical Performance Indicator:	Status vs Numerical Indicator:	Status vs Recovery:
7/25/2016	16-001	47.784	0.10	0.503	9.491	0.446	7.688	7.338	81.00%	-5.47	N/A	Pass
7/25/2016	16-001	47.784	0.10	0.504	9.472	0.446	7.338	7.338	77.47%	-5.47	N/A	Pass

Duplicate Sample Assessment

Sample I.D.:	Duplicate Sample I.D.:	Sample Result (pCi/L, g, F):	Sample Duplicate Result (pCi/L, g, F):	Sample Duplicate Counting Uncertainty (pCi/L, g, F):	Are sample and/or duplicate results below MDC?	Duplicate Numerical Performance Indicator:	Duplicate RPD:	Duplicate Status vs Numerical Indicator:	Duplicate Status vs RPD:
LCS30360	LCS30360	7.688	0.645	7.338	NO	0.766	4.66%	N/A	Pass

Sample Matrix Spike Control Assessment

Sample Collection Date:
Sample I.D.:
Sample MS I.D.:
Sample MSD I.D.:
Spike I.D.:
MS/MSD Decay Corrected Spike Concentration (pCi/mL):
Spike Volume Used in MS (mL):
Spike Volume Used in MSD (mL):
MS Aliquot (L, g, F):
MS Target Conc. (pCi/L, g, F):
MSD Aliquot (L, g, F):
MSD Target Conc. (pCi/L, g, F):
Spike uncertainty (calculated):
Sample Result:
Sample Result Counting Uncertainty (pCi/L, g, F):
Sample Matrix Spike Result:
Matrix Spike Result Counting Uncertainty (pCi/L, g, F):
Sample Matrix Spike Duplicate Result:
Matrix Spike Duplicate Result Counting Uncertainty (pCi/L, g, F):
MS Numerical Performance Indicator:
MSD Numerical Performance Indicator:
MS Percent Recovery:
MS Status vs Numerical Indicator:
MSD Status vs Numerical Indicator:
MS Status vs Recovery:
MSD Status vs Recovery:

Matrix Spike/Matrix Spike Duplicate Sample Assessment

Sample I.D.:
Sample MS I.D.:
Sample MSD I.D.:
Sample Matrix Spike Result:
Sample Matrix Spike Duplicate Result:
Matrix Spike Result Counting Uncertainty (pCi/L, g, F):
Matrix Spike Duplicate Result Counting Uncertainty (pCi/L, g, F):
Duplicate Numerical Performance Indicator:
MS/MSD Duplicate RPD:
MS/MSD Duplicate Status vs Numerical Indicator:
MS/MSD Duplicate Status vs RPD:

Evaluation of duplicate precision is not applicable if either the sample or duplicate results are below the MDC.

Comments:

Quality Control Sample Performance Assessment



Analyst Must Manually Enter All Fields Highlighted in Yellow.

Test: Ra-228
Analyst: JLW
Date: 7/21/2016
Worklist: 30408
Matrix: DW

Method Blank Assessment	
MB Sample ID	1110829
MB concentration:	0.547
M/B Counting Uncertainty:	0.349
MB MDC:	0.888
MB Numerical Performance Indicator:	3.07
MB Status vs Numerical Indicator:	N/A
MB Status vs. MDC:	Pass

Laboratory Control Sample Assessment	
LCS (Y or N)?	Y
LCS ID	LCS30408
Count Date:	7/25/2016
Spike I.D.:	16-025
Spike Concentration (pCi/mL):	26.111
Volume Used (mL):	0.20
Aliquot Volume (L, g, F):	0.808
Target Conc. (pCi/L, g, F):	6.462
Uncertainty (Calculated):	0.465
Result (pCi/L, g, F):	4.536
LCS/LCSD Counting Uncertainty (pCi/L, g, F):	0.607
Numerical Performance Indicator:	-4.94
Percent Recovery:	70.18%
Status vs Numerical Indicator:	N/A
Status vs Recovery:	Pass

Duplicate Sample Assessment	
Sample I.D.:	LCS30408
Duplicate Sample I.D.:	LCS30408
Sample Result (pCi/L, g, F):	4.536
Sample Duplicate Result (pCi/L, g, F):	0.607
Sample Duplicate Result Counting Uncertainty (pCi/L, g, F):	4.917
Are sample and/or duplicate results below MDC?	NO
Duplicate Numerical Performance Indicator:	-0.844
Duplicate RPD:	8.06%
Duplicate Status vs Numerical Indicator:	N/A
Duplicate Status vs RPD:	Pass

Evaluation of duplicate precision is not applicable if either the sample or duplicate results are below the MDC.

Comments:

1 of 1

Sample Matrix Spike Control Assessment	
Sample Collection Date:	
Sample I.D.:	
Sample MS I.D.:	
Sample MSD I.D.:	
Spike I.D.:	
MS/MSD Decay Corrected Spike Concentration (pCi/mL):	
Spike Volume Used in MS (mL):	
Spike Volume Used in MSD (mL):	
MS Aliquot (L, g, F):	
MS Target Conc. (pCi/L, g, F):	
MSD Aliquot (L, g, F):	
MSD Target Conc. (pCi/L, g, F):	
Spike uncertainty (calculated):	
Sample Result Counting Uncertainty (pCi/L, g, F):	
Sample Matrix Spike Result:	
Matrix Spike Result Counting Uncertainty (pCi/L, g, F):	
Sample Matrix Spike Duplicate Result:	
Matrix Spike Duplicate Result Counting Uncertainty (pCi/L, g, F):	
MS Numerical Performance Indicator:	
MSD Numerical Performance Indicator:	
MS Percent Recovery:	
MSD Percent Recovery:	
MS Status vs Numerical Indicator:	
MSD Status vs Numerical Indicator:	
MS Status vs Recovery:	
MSD Status vs Recovery:	

Matrix Spike/Matrix Spike Duplicate Sample Assessment	
Sample I.D.:	
Sample MS I.D.:	
Sample MSD I.D.:	
Matrix Spike Result Counting Uncertainty (pCi/L, g, F):	
Sample Matrix Spike Duplicate Result:	
Matrix Spike Duplicate Result Counting Uncertainty (pCi/L, g, F):	
Duplicate Numerical Performance Indicator:	
MS/MSD Duplicate RPD:	
MS/MSD Duplicate Status vs Numerical Indicator:	
MS/MSD Duplicate Status vs RPD:	

July 28, 2016

Maria Padilla
GA Power
2480 Maner Rd
Atlanta, GA 30339

RE: Project: Plant Scherer
Pace Project No.: 30188022

Dear Maria Padilla:

Enclosed are the analytical results for sample(s) received by the laboratory on June 28, 2016. The results relate only to the samples included in this report. Results reported herein conform to the most current TNI standards and the laboratory's Quality Assurance Manual, where applicable, unless otherwise noted in the body of the report.

If you have any questions concerning this report, please feel free to contact me.

Sincerely,



Jacquelyn Collins
jacquelyn.collins@pacelabs.com
Project Manager

Enclosures



REPORT OF LABORATORY ANALYSIS

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CERTIFICATIONS

Project: Plant Scherer
Pace Project No.: 30188022

Pennsylvania Certification IDs

1638 Roseytown Rd Suites 2,3&4, Greensburg, PA 15601
L-A-B DOD-ELAP Accreditation #: L2417
Alabama Certification #: 41590
Arizona Certification #: AZ0734
Arkansas Certification
California Certification #: 04222CA
Colorado Certification
Connecticut Certification #: PH-0694
Delaware Certification
Florida/TNI Certification #: E87683
Georgia Certification #: C040
Guam Certification
Hawaii Certification
Idaho Certification
Illinois Certification
Indiana Certification
Iowa Certification #: 391
Kansas/TNI Certification #: E-10358
Kentucky Certification #: 90133
Louisiana DHH/TNI Certification #: LA140008
Louisiana DEQ/TNI Certification #: 4086
Maine Certification #: PA00091
Maryland Certification #: 308
Massachusetts Certification #: M-PA1457
Michigan/PADEP Certification
Missouri Certification #: 235

Montana Certification #: Cert 0082
Nebraska Certification #: NE-05-29-14
Nevada Certification #: PA014572015-1
New Hampshire/TNI Certification #: 2976
New Jersey/TNI Certification #: PA 051
New Mexico Certification #: PA01457
New York/TNI Certification #: 10888
North Carolina Certification #: 42706
North Dakota Certification #: R-190
Oregon/TNI Certification #: PA200002
Pennsylvania/TNI Certification #: 65-00282
Puerto Rico Certification #: PA01457
Rhode Island Certification #: 65-00282
South Dakota Certification
Tennessee Certification #: TN2867
Texas/TNI Certification #: T104704188-14-8
Utah/TNI Certification #: PA014572015-5
USDA Soil Permit #: P330-14-00213
Vermont Dept. of Health: ID# VT-0282
Virgin Island/PADEP Certification
Virginia/VELAP Certification #: 460198
Washington Certification #: C868
West Virginia DEP Certification #: 143
West Virginia DHHR Certification #: 9964C
Wisconsin Certification
Wyoming Certification #: 8TMS-L

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SAMPLE SUMMARY

Project: Plant Scherer

Pace Project No.: 30188022

Lab ID	Sample ID	Matrix	Date Collected	Date Received
30188022001	SGWA-3	Water	06/24/16 09:50	06/28/16 10:30

REPORT OF LABORATORY ANALYSIS

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SAMPLE ANALYTE COUNT

Project: Plant Scherer
Pace Project No.: 30188022

Lab ID	Sample ID	Method	Analysts	Analytes Reported
30188022001	SGWA-3	EPA 9315	JAL	1
		EPA 9320	JLW	1
		Total Radium Calculation	CMC	1

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: Plant Scherer

Pace Project No.: 30188022

Sample: SGWA-3 **Lab ID: 30188022001** Collected: 06/24/16 09:50 Received: 06/28/16 10:30 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
Radium-226	EPA 9315	0.0765 ± 0.0870 (0.168) C:98% T:NA	pCi/L	07/25/16 12:28	13982-63-3	
Radium-228	EPA 9320	1.12 ± 0.486 (0.766) C:79% T:61%	pCi/L	07/27/16 20:47	15262-20-1	
Total Radium	Total Radium Calculation	1.20 ± 0.573 (0.934)	pCi/L	07/28/16 12:59	7440-14-4	

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL - RADIOCHEMISTRY

Project: Plant Scherer

Pace Project No.: 30188022

QC Batch: 226717

Analysis Method: EPA 9320

QC Batch Method: EPA 9320

Analysis Description: 9320 Radium 228

Associated Lab Samples: 30188022001

METHOD BLANK: 1110833

Matrix: Water

Associated Lab Samples: 30188022001

Parameter	Act ± Unc (MDC) Carr Trac	Units	Analyzed	Qualifiers
Radium-228	0.615 ± 0.401 (0.764) C:85% T:77%	pCi/L	07/27/16 12:35	

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL - RADIOCHEMISTRY

Project: Plant Scherer

Pace Project No.: 30188022

QC Batch: 226875

Analysis Method: EPA 9315

QC Batch Method: EPA 9315

Analysis Description: 9315 Total Radium

Associated Lab Samples: 30188022001

METHOD BLANK: 1111688

Matrix: Water

Associated Lab Samples: 30188022001

Parameter	Act ± Unc (MDC) Carr Trac	Units	Analyzed	Qualifiers
Radium-226	0.0115 ± 0.0865 (0.226) C:95% T:NA	pCi/L	07/25/16 09:24	

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

REPORT OF LABORATORY ANALYSIS

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QUALIFIERS

Project: Plant Scherer

Pace Project No.: 30188022

DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to dilution of the sample aliquot.

ND - Not Detected at or above adjusted reporting limit.

J - Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit.

MDL - Adjusted Method Detection Limit.

PQL - Practical Quantitation Limit.

RL - Reporting Limit.

S - Surrogate

1,2-Diphenylhydrazine decomposes to and cannot be separated from Azobenzene using Method 8270. The result for each analyte is a combined concentration.

Consistent with EPA guidelines, unrounded data are displayed and have been used to calculate % recovery and RPD values.

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

U - Indicates the compound was analyzed for, but not detected.

N-Nitrosodiphenylamine decomposes and cannot be separated from Diphenylamine using Method 8270. The result reported for each analyte is a combined concentration.

Act - Activity

Unc - Uncertainty: SDWA = 1.96 sigma count uncertainty, all other matrices = Expanded Uncertainty (95% confidence interval).

Gamma Spec = Expanded Uncertainty (95.4% Confidence Interval)

(MDC) - Minimum Detectable Concentration

Trac - Tracer Recovery (%)

Carr - Carrier Recovery (%)

Pace Analytical is TNI accredited. Contact your Pace PM for the current list of accredited analytes.

TNI - The NELAC Institute.

REPORT OF LABORATORY ANALYSIS

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30188022

NR 06/27/16

LAB USE ONLY
ANALYSIS REQUEST AND CHAIN OF CUSTODY RECORD

Georgia Power Environmental Laboratory
 NELAP Certification #E57554
 2480 Maner Road, BIN 39110
 Atlanta, Georgia 30339
 Phone: (404) 799-2100
 Company: 8-530-2100

Company:¹ Southern Company Services
 Report To: Joju Abraham
 Address:² 241 Ralph McGill Blvd SE B10185
 Atlanta, GA 30308
 Phone/Fax:³ 404-506-7239
 Contact:⁴ Joju Abraham
 Project Location:⁵ Plant Scherer
 Account Number:⁶
 Special Instructions:⁷ Scherer AP CCR GW

Sample Shipment Date:⁸ 6/24/16
 Sample Received Date:⁹ Charles Watson
 Sampled By:¹⁰ Charles Watson
 # of Business Days (Rush):
 (Must be cleared through Env. Lab. Prior to shipment)

Standard Turnaround Time

Work Order No.

Reviewed By:

Page 1 of 1

PRESERVATIVE		HNO3	Ice	HNO3	Sample Type Key: 22
N	N	I	N		C-Carb C-Other C-Composite
ANALYSIS REQUESTED				Matrix Key: 23	
Metals app. III & IV EPA 6020 & EPA 7470		Cl, F, SO4 EPA 300 TDS SM2540C		C-Oil S-Solid SL-Slags W-Whips SW-Surface Water GV-Ground Water WW-Waste Water DW-Drinking Water	
Radium 226/228 SW-846 9315 & 9320				Preservative Key: 24 H-Hydrochloric Acid M-Nitric Acid S-Sulfuric Acid SH-Sodium Hydroxide SS-Sodium Sulfate P-Phosphoric Acid ST-Sodium Thiosulfate I-Ice U-Unpreserved	

LAB USE ONLY	LAB USE ONLY	LAB USE ONLY	LAB USE ONLY	LAB USE ONLY	LAB USE ONLY
LAB ID	Sample Description	Collection Date	Collection Time	Sample Type	No. of Containers
SGWA-3		6/24/16	0950	G-GW	3

WO#: 30188022



Relinquished by: Date/Time 6/24/16 1322 H₂O°C (GPE-DR-UP) hand, ice cooler in good condition, no seal
 Received by: Date/Time 6/24/16 1522
 Relinquished by: Date/Time 6/24/16 1545
 Received by: Date/Time 6/25/16 1030
 by the two other women dropped samples off at Lake (15:30) WB 6/24/16
 Relinquished By: 6-17-16 @1200
 Received by Lab: Madabman, 06/27/16 - 1233
 Ice, 20, Contact, 1/1, cooler - pack.
 No Response received from the lab.

Sample Condition Upon Receipt Pittsburgh

30188022



Client Name: GA Power Project # _____

Carrier: Fed Ex UPS USPS Client Commercial Pace Other _____

Tracking #: 1812 5097 3169

Custody Seal on Cooler/Box Present: yes no Seals intact: yes no

Thermometer Used N/A Type of Ice: Wet Blue None

Cooler Temperature _____ Observed Temp _____ °C Correction Factor: _____ °C Final Temp: _____ °C

Temp should be above freezing to 6°C

Date and initials of person examining contents: DATA 6-28-16

Comments:

	Yes	No	N/A	
Chain of Custody Present:	X			1.
Chain of Custody Filled Out:	X			2.
Chain of Custody Relinquished:	X			3.
Sampler Name & Signature on COC:		X		4.
Sample Labels match COC:	X			5.
-Includes date/time/ID/Analysis Matrix: <u>WT</u>				
Samples Arrived within Hold Time:	X			6.
Short Hold Time Analysis (<72hr remaining):		X		7.
Rush Turn Around Time Requested:		X		8.
Sufficient Volume:	X			9.
Correct Containers Used:	X			10.
-Pace Containers Used:		X		
Containers Intact:	X			11.
Filtered volume received for Dissolved tests			X	12.
All containers needing preservation have been checked.	X			13. <u>PHLZ</u>
All containers needing preservation are found to be in compliance with EPA recommendation.	X			
exceptions: VOA, coliform, TOC, O&G, Phenolics				
				Initial when completed: <u>DATA</u> Date/time of preservation: _____
				Lot # of added preservative: _____
Headspace in VOA Vials (>6mm):			X	14.
Trip Blank Present:		X		15.
Trip Blank Custody Seals Present			X	

Client Notification/ Resolution:

Person Contacted: _____ Date/Time: _____ Contacted By: _____

Comments/ Resolution: _____

Note: Whenever there is a discrepancy affecting North Carolina compliance samples, a copy of this form will be sent to the North Carolina DEHNR Certification Office (i.e. out of hold, incorrect preservative, out of temp, incorrect containers)

July 28, 2016

Maria Padilla
GA Power
2480 Maner Rd
Atlanta, GA 30339

RE: Project: Plant Scherer
Pace Project No.: 30188021

Dear Maria Padilla:

Enclosed are the analytical results for sample(s) received by the laboratory on June 28, 2016. The results relate only to the samples included in this report. Results reported herein conform to the most current TNI standards and the laboratory's Quality Assurance Manual, where applicable, unless otherwise noted in the body of the report.

If you have any questions concerning this report, please feel free to contact me.

Sincerely,



Jacquelyn Collins
jacquelyn.collins@pacelabs.com
Project Manager

Enclosures



REPORT OF LABORATORY ANALYSIS

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CERTIFICATIONS

Project: Plant Scherer

Pace Project No.: 30188021

Pennsylvania Certification IDs

1638 Roseytown Rd Suites 2,3&4, Greensburg, PA 15601

L-A-B DOD-ELAP Accreditation #: L2417

Alabama Certification #: 41590

Arizona Certification #: AZ0734

Arkansas Certification

California Certification #: 04222CA

Colorado Certification

Connecticut Certification #: PH-0694

Delaware Certification

Florida/TNI Certification #: E87683

Georgia Certification #: C040

Guam Certification

Hawaii Certification

Idaho Certification

Illinois Certification

Indiana Certification

Iowa Certification #: 391

Kansas/TNI Certification #: E-10358

Kentucky Certification #: 90133

Louisiana DHH/TNI Certification #: LA140008

Louisiana DEQ/TNI Certification #: 4086

Maine Certification #: PA00091

Maryland Certification #: 308

Massachusetts Certification #: M-PA1457

Michigan/PADEP Certification

Missouri Certification #: 235

Montana Certification #: Cert 0082

Nebraska Certification #: NE-05-29-14

Nevada Certification #: PA014572015-1

New Hampshire/TNI Certification #: 2976

New Jersey/TNI Certification #: PA 051

New Mexico Certification #: PA01457

New York/TNI Certification #: 10888

North Carolina Certification #: 42706

North Dakota Certification #: R-190

Oregon/TNI Certification #: PA200002

Pennsylvania/TNI Certification #: 65-00282

Puerto Rico Certification #: PA01457

Rhode Island Certification #: 65-00282

South Dakota Certification

Tennessee Certification #: TN2867

Texas/TNI Certification #: T104704188-14-8

Utah/TNI Certification #: PA014572015-5

USDA Soil Permit #: P330-14-00213

Vermont Dept. of Health: ID# VT-0282

Virgin Island/PADEP Certification

Virginia/VELAP Certification #: 460198

Washington Certification #: C868

West Virginia DEP Certification #: 143

West Virginia DHHR Certification #: 9964C

Wisconsin Certification

Wyoming Certification #: 8TMS-L

REPORT OF LABORATORY ANALYSIS

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SAMPLE SUMMARY

Project: Plant Scherer

Pace Project No.: 30188021

Lab ID	Sample ID	Matrix	Date Collected	Date Received
30188021001	SGWA-4	Water	06/24/16 09:35	06/28/16 10:30
30188021002	FB-5	Water	06/24/16 10:53	06/28/16 10:30

REPORT OF LABORATORY ANALYSIS

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SAMPLE ANALYTE COUNT

Project: Plant Scherer
Pace Project No.: 30188021

Lab ID	Sample ID	Method	Analysts	Analytes Reported
30188021001	SGWA-4	EPA 9315	JAL	1
		EPA 9320	JLW	1
		Total Radium Calculation	CMC	1
30188021002	FB-5	EPA 9315	JAL	1
		EPA 9320	JLW	1
		Total Radium Calculation	CMC	1

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: Plant Scherer

Pace Project No.: 30188021

Sample: SGWA-4 **Lab ID: 30188021001** Collected: 06/24/16 09:35 Received: 06/28/16 10:30 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
Radium-226	EPA 9315	0.0318 ± 0.0700 (0.166) C:96% T:NA	pCi/L	07/25/16 12:28	13982-63-3	
Radium-228	EPA 9320	0.942 ± 0.399 (0.624) C:78% T:78%	pCi/L	07/27/16 20:46	15262-20-1	
Total Radium	Total Radium Calculation	0.974 ± 0.469 (0.790)	pCi/L	07/28/16 12:59	7440-14-4	

Sample: FB-5 **Lab ID: 30188021002** Collected: 06/24/16 10:53 Received: 06/28/16 10:30 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
Radium-226	EPA 9315	0.0413 ± 0.0767 (0.175) C:96% T:NA	pCi/L	07/25/16 12:28	13982-63-3	
Radium-228	EPA 9320	0.962 ± 0.400 (0.623) C:80% T:78%	pCi/L	07/27/16 20:46	15262-20-1	
Total Radium	Total Radium Calculation	1.00 ± 0.477 (0.798)	pCi/L	07/28/16 12:59	7440-14-4	

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL - RADIOCHEMISTRY

Project: Plant Scherer

Pace Project No.: 30188021

QC Batch: 226717

Analysis Method: EPA 9320

QC Batch Method: EPA 9320

Analysis Description: 9320 Radium 228

Associated Lab Samples: 30188021001, 30188021002

METHOD BLANK: 1110833

Matrix: Water

Associated Lab Samples: 30188021001, 30188021002

Parameter	Act ± Unc (MDC) Carr Trac	Units	Analyzed	Qualifiers
Radium-228	0.615 ± 0.401 (0.764) C:85% T:77%	pCi/L	07/27/16 12:35	

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL - RADIOCHEMISTRY

Project: Plant Scherer

Pace Project No.: 30188021

QC Batch:	226875	Analysis Method:	EPA 9315
QC Batch Method:	EPA 9315	Analysis Description:	9315 Total Radium
Associated Lab Samples:	30188021001, 30188021002		

METHOD BLANK:	1111688	Matrix:	Water
Associated Lab Samples:	30188021001, 30188021002		

Parameter	Act ± Unc (MDC) Carr Trac	Units	Analyzed	Qualifiers
Radium-226	0.0115 ± 0.0865 (0.226) C:95% T:NA	pCi/L	07/25/16 09:24	

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

REPORT OF LABORATORY ANALYSIS

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QUALIFIERS

Project: Plant Scherer

Pace Project No.: 30188021

DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to dilution of the sample aliquot.

ND - Not Detected at or above adjusted reporting limit.

J - Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit.

MDL - Adjusted Method Detection Limit.

PQL - Practical Quantitation Limit.

RL - Reporting Limit.

S - Surrogate

1,2-Diphenylhydrazine decomposes to and cannot be separated from Azobenzene using Method 8270. The result for each analyte is a combined concentration.

Consistent with EPA guidelines, unrounded data are displayed and have been used to calculate % recovery and RPD values.

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

U - Indicates the compound was analyzed for, but not detected.

N-Nitrosodiphenylamine decomposes and cannot be separated from Diphenylamine using Method 8270. The result reported for each analyte is a combined concentration.

Act - Activity

Unc - Uncertainty: SDWA = 1.96 sigma count uncertainty, all other matrices = Expanded Uncertainty (95% confidence interval).

Gamma Spec = Expanded Uncertainty (95.4% Confidence Interval)

(MDC) - Minimum Detectable Concentration

Trac - Tracer Recovery (%)

Carr - Carrier Recovery (%)

Pace Analytical is TNI accredited. Contact your Pace PM for the current list of accredited analytes.

TNI - The NELAC Institute.

REPORT OF LABORATORY ANALYSIS

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30188021

MR 06/27/16

Work Order No.

Reviewed By:

Page 1 of 1

LAB USE ONLY

ANALYSIS REQUEST AND CHAIN OF CUSTODY RECORD

Georgia Power Environmental Laboratory
 NELAP Certification #E57554
 2480 Maner Road, BIN 39110
 Atlanta, Georgia 30339
 Phone: (404) 799-2100
 Company: 8-530-2100

Company: Southern Company Services
 Report To: Joju Abraham
 Address: 241 Ralph McGill Blvd SE B10185
Atlanta, GA 30308
 Phone/Fax: 404-506-7239
 Contact: Joju Abraham
 Project Location: Plant Scherer
 Account Number:
 Special:
 Instructions: Scherer AP CCR GW

Sample Shipment Date: 6/24/16

Sample Received Date:

Sampled By: Wesley Bowen

of Business Days (Rush):
 (Must be cleared through Env. Lab. Prior to shipment)

Standard Turnaround Time: X

LAB USE ONLY LAB ID	Sample Number ¹⁴	Collection ¹⁵		Sample Description ¹⁶	Sample Type	Matrix	No. of Containers	ANALYSIS REQUESTED ²¹			PRESERVATIVE ²⁰			Matrix Key: 23 S-Solid S-Sludge W-Water SW-Surface Water GW-Grnd Water WW/Waste Water DW-Dinking Water	Sample Type Key: 22 C-Grab O-Other C-Com pelle	LAB USE ONLY ²⁵ Comments	
		Date	Time					HNO3	Ice	HNO3	N	N					
		Metals app. III & IV EPA 6020 & EPA 7470 Cl, F, SO4 EPA 300 TDS SM2540C Radium 226/228: SW-846 9315 & 9320															
	SGWA-4	6/24/16	0935		GW		3	X	X	X							3 001
	FB-5	6/24/16	1053	Field Blank	O DW		3	X	X	X							3 002

WO#: 30188021

30188021

Relinquished by: Date/Time 6/24/16 1543 4.0°C (6 PEL-TP-4P) hand, re-cooled in cool container, no seal

Received by: Date/Time 6-24-16 01545 Received by Lab: Wesley Bowen, 6/27/16, 1235

Relinquished by: Date/Time 6-27-16 0100 Ice, 2°C, Intact, YP, PACE - Colony.

Received by: Wesley Bowen Date/Time 6-28-16/1030

*Mina Padilla was notified @ 1:00 PM via email by Wesley Bowen. No response from Mina by that time. Wesley Bowen proposed samples off at Lab. (ESD) - US state

Sample Condition Upon Receipt Pittsburgh

30188021



Client Name: GA Power Project # _____

Carrier: Fed Ex UPS USPS Client Commercial Pace Other _____

Tracking #: 6812 5097 3169

Custody Seal on Cooler/Box Present: yes no Seals intact: yes no

Thermometer Used N/A Type of Ice: Wet Blue None

Cooler Temperature Observed Temp _____ °C Correction Factor: _____ °C Final Temp: _____ °C

Temp should be above freezing to 6°C

Date and initials of person examining contents: QATR 6-28-16

Comments:

	Yes	No	N/A	
Chain of Custody Present:	X			1.
Chain of Custody Filled Out:	X			2.
Chain of Custody Relinquished:	X			3.
Sampler Name & Signature on COC:		X		4.
Sample Labels match COC:	X			5.
-Includes date/time/ID/Analysis Matrix: <u>WT</u>				
Samples Arrived within Hold Time:	X			6.
Short Hold Time Analysis (<72hr remaining):		X		7.
Rush Turn Around Time Requested:		X		8.
Sufficient Volume:	X			9.
Correct Containers Used:	X			10.
-Pace Containers Used:		X		
Containers Intact:	X			11.
Filtered volume received for Dissolved tests			X	12.
All containers needing preservation have been checked.	X			13. <u>PHLZ</u>
All containers needing preservation are found to be in compliance with EPA recommendation.	X			
exceptions: VOA, coliform, TOC, O&G, Phenolics				Initial when completed: <u>QATR</u> Date/time of preservation: _____
				Lot # of added preservative: _____
Headspace in VOA Vials (>6mm):			X	14.
Trip Blank Present:		X		15.
Trip Blank Custody Seals Present			X	

Client Notification/ Resolution:

Person Contacted: _____ Date/Time: _____ Contacted By: _____

Comments/ Resolution: _____

Note: Whenever there is a discrepancy affecting North Carolina compliance samples, a copy of this form will be sent to the North Carolina DEHNR Certification Office (i.e out of hold, incorrect preservative, out of temp, incorrect containers)

Quality Control Sample Performance Assessment



Analyst Must Manually Enter All Fields Highlighted in Yellow.

Test: Ra-226
Analyst: JAL
Date: 7/20/2016
Worklist: 30422
Matrix: DW

Method Blank Assessment	
MB Sample ID	1111688
MB concentration:	0.011
MB Counting Uncertainty:	0.086
MB MDC:	0.226
MB Numerical Performance Indicator:	0.26
MB Status vs Numerical Indicator:	N/A
MB Status vs. MDC:	Pass

Laboratory Control Sample Assessment	
Count Date:	7/26/2016
Spike I.D.:	16-001
Spike Concentration (pCi/mL):	47.784
Volume Used (mL):	0.10
Aliquot Volume (L, g, F):	0.514
Target Conc. (pCi/L, g, F):	9.302
Uncertainty (Calculated):	0.438
Result (pCi/L, g, F):	7.454
LCS/LCSD Counting Uncertainty (pCi/L, g, F):	0.614
Numerical Performance Indicator:	-4.81
Percent Recovery:	80.12%
Status vs Numerical Indicator:	N/A
Status vs Recovery:	Pass

Duplicate Sample Assessment	
Sample I.D.:	LCS30422
Duplicate Sample I.D.:	LCS30422
Sample Result (pCi/L, g, F):	7.454
Sample Result Counting Uncertainty (pCi/L, g, F):	0.614
Sample Duplicate Result (pCi/L, g, F):	7.582
Sample Duplicate Result Counting Uncertainty (pCi/L, g, F):	0.629
Are sample and/or duplicate results below MDC?	NO
Duplicate Numerical Performance Indicator:	-0.287
Duplicate RPD:	1.71%
Duplicate Status vs Numerical Indicator:	N/A
Duplicate Status vs RPD:	Pass

Evaluation of duplicate precision is not applicable if either the sample or duplicate results are below the MDC.

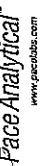
Comments:

Jan 7/28/16

Sample Matrix Spike Control Assessment	
Sample Collection Date:	
Sample I.D.:	
Sample MS I.D.:	
Sample MSD I.D.:	
Spike I.D.:	
MS/MSD Decay Corrected Spike Concentration (pCi/mL):	
Spike Volume Used in MS (mL):	
Spike Volume Used in MSD (mL):	
MS Aliquot (L, g, F):	
MSD Aliquot (L, g, F):	
MS Target Conc. (pCi/L, g, F):	
MSD Target Conc. (pCi/L, g, F):	
Spike uncertainty (calculated):	
Sample Result:	
Sample Result Counting Uncertainty (pCi/L, g, F):	
Sample Matrix Spike Result:	
Sample Matrix Spike Counting Uncertainty (pCi/L, g, F):	
Sample Matrix Spike Duplicate Result:	
Sample Matrix Spike Duplicate Counting Uncertainty (pCi/L, g, F):	
MS Numerical Performance Indicator:	
MSD Numerical Performance Indicator:	
MS Percent Recovery:	
MSD Percent Recovery:	
MS Status vs Numerical Indicator:	
MSD Status vs Numerical Indicator:	
MS Status vs Recovery:	
MSD Status vs Recovery:	

Matrix Spike/Matrix Spike Duplicate Sample Assessment	
Sample I.D.:	
Sample MS I.D.:	
Sample MSD I.D.:	
Sample Matrix Spike Result:	
Matrix Spike Result Counting Uncertainty (pCi/L, g, F):	
Sample Matrix Spike Duplicate Result:	
Sample Matrix Spike Duplicate Counting Uncertainty (pCi/L, g, F):	
Matrix Spike Duplicate Result Counting Uncertainty (pCi/L, g, F):	
Duplicate Numerical Performance Indicator:	
MS/MSD Duplicate RPD:	
MS/MSD Duplicate Status vs Numerical Indicator:	
MS/MSD Duplicate Status vs RPD:	

Quality Control Sample Performance Assessment



Analyst Must Manually Enter All Fields Highlighted in Yellow.

Test: Ra-228
Analyst: JLW
Date: 7/21/2016
Worklist: 30412
Matrix: DW

Method Blank Assessment	
MB Sample ID	1110833
MB concentration:	0.615
MB Counting Uncertainty:	0.386
MB MDC:	0.764
MB Numerical Performance Indicator:	3.12
MB Status vs Numerical Indicator:	N/A
MB Status vs. MDC:	Pass

Laboratory Control Sample Assessment		Y
LCS30412	Count Date:	LCS30412
7/27/2016	Spike I.D.:	7/27/2016
16-025	Spike Concentration (pCi/mL):	16-025
26.094	Volume Used (mL):	26.094
0.20	Aliquot Volume (L, g, F):	0.20
0.803	Target Conc. (pCi/L, g, F):	0.805
6.502	Uncertainty (Calculated):	6.479
0.468	Result (pCi/L, g, F):	0.466
7.022	Numerical Performance Indicator:	6.534
0.735	Percent Recovery:	0.661
1.17	Status vs Numerical Indicator:	0.13
107.98%	Status vs Recovery:	100.86%
N/A		N/A
Pass		Pass

Duplicate Sample Assessment	
Sample I.D.:	LCS30412
Duplicate Sample I.D.:	LCS30412
Sample Result (pCi/L, g, F):	7.022
Sample Duplicate Result (pCi/L, g, F):	0.735
Sample Result Counting Uncertainty (pCi/L, g, F):	6.534
Sample Duplicate Result Counting Uncertainty (pCi/L, g, F):	0.661
Are sample and/or duplicate results below MDC?	NO
Duplicate Numerical Performance Indicator:	0.967
Duplicate RPD:	7.19%
Duplicate Status vs Numerical Indicator:	N/A
Duplicate Status vs RPD:	Pass

Evaluation of duplicate precision is not applicable if either the sample or duplicate results are below the MDC.

Comments:

Sample Matrix Spike Control Assessment	
Sample Collection Date:	Sample I.D.:
Sample MS I.D.:	Sample MS I.D.:
Sample MSD I.D.:	Sample MSD I.D.:
MS/MSD Decay Corrected Spike Concentration (pCi/mL):	Spike I.D.:
Spike Volume Used in MS (mL):	MS/MSD Decay Corrected Spike Concentration (pCi/mL):
Spike Volume Used in MSD (mL):	Spike Volume Used in MS (mL):
MS Aliquot (L, g, F):	MS Aliquot (L, g, F):
MSD Aliquot (L, g, F):	MSD Aliquot (L, g, F):
MSD Target Conc. (pCi/L, g, F):	MSD Target Conc. (pCi/L, g, F):
Spike uncertainty (calculated):	Spike uncertainty (calculated):
Sample Result	Sample Result
Sample Result Counting Uncertainty (pCi/L, g, F):	Sample Result Counting Uncertainty (pCi/L, g, F):
Sample Matrix Spike Result	Sample Matrix Spike Result
Matrix Spike Result Counting Uncertainty (pCi/L, g, F):	Matrix Spike Result Counting Uncertainty (pCi/L, g, F):
Sample Matrix Spike Duplicate Result	Sample Matrix Spike Duplicate Result
Sample Matrix Spike Duplicate Result Counting Uncertainty (pCi/L, g, F):	Sample Matrix Spike Duplicate Result Counting Uncertainty (pCi/L, g, F):
MS Numerical Performance Indicator:	MS Numerical Performance Indicator:
MSD Numerical Performance Indicator:	MSD Numerical Performance Indicator:
MS Percent Recovery:	MS Percent Recovery:
MS Status vs Numerical Indicator:	MS Status vs Numerical Indicator:
MSD Status vs Numerical Indicator:	MSD Status vs Numerical Indicator:
MS Status vs Recovery:	MS Status vs Recovery:
MSD Status vs Recovery:	MSD Status vs Recovery:

Matrix Spike/Matrix Spike Duplicate Sample Assessment	
Sample I.D.:	Sample I.D.:
Sample MS I.D.:	Sample MS I.D.:
Sample MSD I.D.:	Sample MSD I.D.:
Sample Matrix Spike Result	Sample Matrix Spike Result
Matrix Spike Result Counting Uncertainty (pCi/L, g, F):	Matrix Spike Result Counting Uncertainty (pCi/L, g, F):
Sample Matrix Spike Duplicate Result	Sample Matrix Spike Duplicate Result
Matrix Spike Duplicate Result Counting Uncertainty (pCi/L, g, F):	Matrix Spike Duplicate Result Counting Uncertainty (pCi/L, g, F):
Duplicate Numerical Performance Indicator:	Duplicate Numerical Performance Indicator:
MS/MSD Duplicate RPD:	MS/MSD Duplicate RPD:
MS/MSD Duplicate Status vs Numerical Indicator:	MS/MSD Duplicate Status vs Numerical Indicator:
MS/MSD Duplicate Status vs RPD:	MS/MSD Duplicate Status vs RPD:

August 08, 2016

Maria Padilla
GA Power
2480 Maner Rd
Atlanta, GA 30339

RE: Project: Plant Scherer
Pace Project No.: 30188170

Dear Maria Padilla:

Enclosed are the analytical results for sample(s) received by the laboratory on June 29, 2016. The results relate only to the samples included in this report. Results reported herein conform to the most current TNI standards and the laboratory's Quality Assurance Manual, where applicable, unless otherwise noted in the body of the report.

If you have any questions concerning this report, please feel free to contact me.

Sincerely,



Jacquelyn Collins
jacquelyn.collins@pacelabs.com
Project Manager

Enclosures



REPORT OF LABORATORY ANALYSIS

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CERTIFICATIONS

Project: Plant Scherer
Pace Project No.: 30188170

Pennsylvania Certification IDs

1638 Roseytown Rd Suites 2,3&4, Greensburg, PA 15601
L-A-B DOD-ELAP Accreditation #: L2417
Alabama Certification #: 41590
Arizona Certification #: AZ0734
Arkansas Certification
California Certification #: 04222CA
Colorado Certification
Connecticut Certification #: PH-0694
Delaware Certification
Florida/TNI Certification #: E87683
Georgia Certification #: C040
Guam Certification
Hawaii Certification
Idaho Certification
Illinois Certification
Indiana Certification
Iowa Certification #: 391
Kansas/TNI Certification #: E-10358
Kentucky Certification #: 90133
Louisiana DHH/TNI Certification #: LA140008
Louisiana DEQ/TNI Certification #: 4086
Maine Certification #: PA00091
Maryland Certification #: 308
Massachusetts Certification #: M-PA1457
Michigan/PADEP Certification
Missouri Certification #: 235

Montana Certification #: Cert 0082
Nebraska Certification #: NE-05-29-14
Nevada Certification #: PA014572015-1
New Hampshire/TNI Certification #: 2976
New Jersey/TNI Certification #: PA 051
New Mexico Certification #: PA01457
New York/TNI Certification #: 10888
North Carolina Certification #: 42706
North Dakota Certification #: R-190
Oregon/TNI Certification #: PA200002
Pennsylvania/TNI Certification #: 65-00282
Puerto Rico Certification #: PA01457
Rhode Island Certification #: 65-00282
South Dakota Certification
Tennessee Certification #: TN2867
Texas/TNI Certification #: T104704188-14-8
Utah/TNI Certification #: PA014572015-5
USDA Soil Permit #: P330-14-00213
Vermont Dept. of Health: ID# VT-0282
Virgin Island/PADEP Certification
Virginia/VELAP Certification #: 460198
Washington Certification #: C868
West Virginia DEP Certification #: 143
West Virginia DHHR Certification #: 9964C
Wisconsin Certification
Wyoming Certification #: 8TMS-L

REPORT OF LABORATORY ANALYSIS

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SAMPLE SUMMARY

Project: Plant Scherer

Pace Project No.: 30188170

Lab ID	Sample ID	Matrix	Date Collected	Date Received
30188170001	SGWC-6	Water	06/27/16 11:09	06/29/16 11:00
30188170002	SGWC-8	Water	06/27/16 14:55	06/29/16 11:00

REPORT OF LABORATORY ANALYSIS

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SAMPLE ANALYTE COUNT

Project: Plant Scherer

Pace Project No.: 30188170

Lab ID	Sample ID	Method	Analysts	Analytes Reported
30188170001	SGWC-6	EPA 9315	JAL	1
		EPA 9320	JLW	1
		Total Radium Calculation	RMK	1
30188170002	SGWC-8	EPA 9315	JAL	1
		EPA 9320	JLW	1
		Total Radium Calculation	RMK	1

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: Plant Scherer

Pace Project No.: 30188170

Parameters		Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
Radium-226		EPA 9315	0.0971 ± 0.0809 (0.138) C:97% T:NA	pCi/L	07/31/16 06:59	13982-63-3	
Radium-228		EPA 9320	0.527 ± 0.320 (0.583) C:74% T:92%	pCi/L	08/08/16 12:00	15262-20-1	
Total Radium		Total Radium Calculation	0.624 ± 0.401 (0.721)	pCi/L	08/08/16 17:39	7440-14-4	

Parameters		Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
Radium-226		EPA 9315	0.487 ± 0.171 (0.149) C:86% T:NA	pCi/L	07/31/16 06:59	13982-63-3	
Radium-228		EPA 9320	2.41 ± 0.645 (0.587) C:70% T:85%	pCi/L	08/08/16 12:01	15262-20-1	
Total Radium		Total Radium Calculation	2.90 ± 0.816 (0.736)	pCi/L	08/08/16 17:39	7440-14-4	

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL - RADIOCHEMISTRY

Project: Plant Scherer

Pace Project No.: 30188170

QC Batch: 227094

Analysis Method: EPA 9315

QC Batch Method: EPA 9315

Analysis Description: 9315 Total Radium

Associated Lab Samples: 30188170001, 30188170002

METHOD BLANK: 1112538

Matrix: Water

Associated Lab Samples: 30188170001, 30188170002

Parameter	Act ± Unc (MDC) Carr Trac	Units	Analyzed	Qualifiers
Radium-226	-0.0383 ± 0.0434 (0.181) C:69% T:NA	pCi/L	07/31/16 06:59	

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QUALITY CONTROL - RADIOCHEMISTRY

Project: Plant Scherer

Pace Project No.: 30188170

QC Batch: 228621

Analysis Method: EPA 9320

QC Batch Method: EPA 9320

Analysis Description: 9320 Radium 228

Associated Lab Samples: 30188170001, 30188170002

METHOD BLANK: 1119865

Matrix: Water

Associated Lab Samples: 30188170001, 30188170002

Parameter	Act ± Unc (MDC) Carr Trac	Units	Analyzed	Qualifiers
Radium-228	0.599 ± 0.344 (0.624) C:74% T:94%	pCi/L	08/08/16 12:00	

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

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QUALIFIERS

Project: Plant Scherer
Pace Project No.: 30188170

DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to dilution of the sample aliquot.

ND - Not Detected at or above adjusted reporting limit.

J - Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit.

MDL - Adjusted Method Detection Limit.

PQL - Practical Quantitation Limit.

RL - Reporting Limit.

S - Surrogate

1,2-Diphenylhydrazine decomposes to and cannot be separated from Azobenzene using Method 8270. The result for each analyte is a combined concentration.

Consistent with EPA guidelines, unrounded data are displayed and have been used to calculate % recovery and RPD values.

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

U - Indicates the compound was analyzed for, but not detected.

N-Nitrosodiphenylamine decomposes and cannot be separated from Diphenylamine using Method 8270. The result reported for each analyte is a combined concentration.

Act - Activity

Unc - Uncertainty: SDWA = 1.96 sigma count uncertainty, all other matrices = Expanded Uncertainty (95% confidence interval).

Gamma Spec = Expanded Uncertainty (95.4% Confidence Interval)

(MDC) - Minimum Detectable Concentration

Trac - Tracer Recovery (%)

Carr - Carrier Recovery (%)

Pace Analytical is TNI accredited. Contact your Pace PM for the current list of accredited analytes.

TNI - The NELAC Institute.

REPORT OF LABORATORY ANALYSIS

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WO#: 30188170



Page 1 of 1

ANALYSIS REQUEST AND CHAIN OF CUSTODY RECORD

Georgia Power Environmental Laboratory
 NELAP Certification #E57554
 2480 Maner Road, BIN 39110
 Atlanta, Georgia 30339
 Phone: (404) 799-2100
 Company: 8-530-2100

Company: Southern Company Services
 Report To: Joju Abraham
 Address: 241 Ralph McGill Blvd SE B10185
 Atlanta, GA 30308
 Phone/Fax: 404-506-7239
 Contact: Joju Abraham
 Project Location: Plant Scherer
 Account Number:
 Special Instructions: Scherer AP CCR GW

Sample Shipment Date: 6/28/16
 Sample Received Date:
 Sampled By: R. Hill
 # of Business Days (Rush):
 (Must be cleared through Env. Lab. Prior to shipment)

LAB USE ONLY

Signature: *R. Hill*

Authorization to subcontract analysis will be assumed acceptable by customer unless stated otherwise.

LAB USE ONLY LAB ID	Sample Number ¹⁴	Collection ¹⁵		Sample Description ¹⁶	Sample Type ¹⁷	Matrix ¹⁸	No. of Containers ¹⁹	ANALYSIS REQUESTED ²¹		PRESERVATIVE ²⁰		Sample Type Key: 22
		Date	Time					HNO3	Ice	HNO3	N	
	56WC-6	6/27/16	1109		GW		3	EPA 6020 & EPA 7470				
	56WC-8	6/27/16	1435		GW		3	Metals app. III & IV				
								Cl, F, SO4 EPA 300				
								TDS SM2540C				
								Radium 226/228:				
								SW-846 9315 & 9320				

Matrix Key: 23
 O-Oil S-Solid SL-Sludge W-Wipe
 SW-Surface Water GW-Grnd Water
 WW-Waste Water DW-Drinking Water

Preservative Key: 24
 H-Hydrochloric Acid N-Nitric Acid
 S-Sulfuric Acid SH-Sodium Hydroxide
 BS-Sodium Bisulfite P-Phosphoric Acid
 ST-Sodium Thiosulfate I-Ice U-Unpreserved

LAB USE ONLY - Sample Receipt Information

Relinquished by: *R. Hill* Date/Time: 6/28/16 07:07
 Received by: *[Signature]* Date/Time: 6/28/16 07:07
 Relinquished by: *[Signature]* Date/Time: 6/28/16 08:29
 Received by: *[Signature]* Date/Time: 6/28/16 8:30

Received by: Ben Mantaw 6-29-16 11:00

Sample Condition Upon Receipt Pittsburgh



Client Name: GA Power

Project # 30188170

Courier: Fed Ex UPS USPS Client Commercial Pace Other _____

Tracking #: 681250972931 681250973228

Custody Seal on Cooler/Box Present: yes no Seals intact: yes no

Thermometer Used NIA Type of Ice: Wet Blue None

Cooler Temperature _____ Observed Temp _____ °C Correction Factor: _____ °C Final Temp: _____ °C
Temp should be above freezing to 6°C

Date and Initials of person examining contents: NTV
6-28-16

Comments:	Yes	No	N/A	
Chain of Custody Present:	X			1.
Chain of Custody Filled Out:	X			2.
Chain of Custody Relinquished:	X			3.
Sampler Name & Signature on COC:		X		4.
Sample Labels match COC:	X			5.
-Includes date/time/ID/Analysis Matrix: <u>WT</u>				
Samples Arrived within Hold Time:	X			6.
Short Hold Time Analysis (<72hr remaining):		X		7.
Rush Turn Around Time Requested:		X		8.
Sufficient Volume:	X			9.
Correct Containers Used:	X			10.
-Pace Containers Used:		X		
Containers Intact:	X			11.
Filtered volume received for Dissolved tests			X	12.
All containers needing preservation have been checked.	X			13.
All containers needing preservation are found to be in compliance with EPA recommendation.	X			
exceptions: VOA, coliform, TOC, O&G, Phenolics				
				Initial when completed <u>NTV</u> Date/time of preservation
				Lot # of added preservative
Headspace in VOA Vials (>6mm):			X	14.
Trip Blank Present:			X	15.
Trip Blank Custody Seals Present			X	

Client Notification/ Resolution:
 Person Contacted: _____ Date/Time: _____ Contacted By: _____
 Comments/ Resolution: _____

Note: Whenever there is a discrepancy affecting North Carolina compliance samples, a copy of this form will be sent to the North Carolina DEHNR Certification Office (i.e. out of hold, incorrect preservative, out of temp, incorrect containers)

Quality Control Sample Performance Assessment

Analyst Must Manually Enter All Fields Highlighted in Yellow.

Test: Ra-226
Analyst: JAL
Date: 7/27/2016
Worklist: 30499
Matrix: DW



Method Blank Assessment

MB Sample ID: 1112538
MB concentration: -0.038
MB Counting Uncertainty: 0.043
MB MDC: 0.181
MB Numerical Performance Indicator: -1.74
MB Status vs Numerical Indicator: N/A
MB Status vs MDC: Pass

Laboratory Control Sample Assessment

Count Date:	LCS (Y or N)?
7/31/2016	LCS0499
16-001	7/31/2016
47.784	16-001
0.10	47.784
0.515	0.10
9.273	0.515
0.436	9.273
7.165	0.436
0.590	7.165
-4.48	0.590
82.12%	-4.48
N/A	82.12%
Pass	N/A
Pass	Pass

LCS/LCSD Counting Uncertainty (pCi/L, g, F): 7.744
Numerical Performance Indicator: -4.48
Percent Recovery: 82.12%
Status vs Numerical Indicator: N/A
Status vs Recovery: Pass

Duplicate Sample Assessment

Sample I.D.:	Duplicate Sample I.D.:	Sample Result (pCi/L, g, F):	Duplicate Result (pCi/L, g, F):
LCS0499	LCS0499	7.744	7.744
LCS030499	LCS030499	0.590	0.590
		7.165	7.165
		0.535	0.535
		NO	NO
		1.424	1.424
		7.77%	7.77%
		N/A	N/A
		Pass	Pass

Duplicate Status vs Numerical Indicator: N/A
Duplicate Status vs RPD: Pass

Sample Matrix Spike Control Assessment

Sample Collection Date: [Blank]
Sample I.D.: [Blank]
Sample MS I.D.: [Blank]
Sample MSD I.D.: [Blank]
Spike I.D.: [Blank]
MS/MSD Decay Corrected Spike Concentration (pCi/mL): [Blank]
Spike Volume Used in MS (mL): [Blank]
Spike Volume Used in MSD (mL): [Blank]
MS Aliquot (L, g, F): [Blank]
MSD Aliquot (L, g, F): [Blank]
MS Target Conc. (pCi/L, g, F): [Blank]
MSD Target Conc. (pCi/L, g, F): [Blank]
Spike uncertainty (calculated): [Blank]
Sample Result: [Blank]
Sample Result Counting Uncertainty (pCi/L, g, F): [Blank]
Sample Matrix Spike Result: [Blank]
Matrix Spike Result Counting Uncertainty (pCi/L, g, F): [Blank]
Sample Matrix Spike Duplicate Result: [Blank]
Matrix Spike Duplicate Result Counting Uncertainty (pCi/L, g, F): [Blank]
MS Numerical Performance Indicator: [Blank]
MSD Numerical Performance Indicator: [Blank]
MS Percent Recovery: [Blank]
MSD Percent Recovery: [Blank]
MS Status vs Numerical Indicator: [Blank]
MSD Status vs Numerical Indicator: [Blank]
MS Status vs Recovery: [Blank]
MSD Status vs Recovery: [Blank]

Matrix Spike/Matrix Spike Duplicate Sample Assessment

Sample I.D.: [Blank]
Sample MS I.D.: [Blank]
Sample MSD I.D.: [Blank]
Sample Matrix Spike Result: [Blank]
Matrix Spike Result Counting Uncertainty (pCi/L, g, F): [Blank]
Sample Matrix Spike Duplicate Result: [Blank]
Matrix Spike Duplicate Result Counting Uncertainty (pCi/L, g, F): [Blank]
Duplicate Numerical Performance Indicator: [Blank]
MS/MSD Duplicate RPD: [Blank]
MS/MSD Duplicate Status vs Numerical Indicator: [Blank]
MS/MSD Duplicate Status vs RPD: [Blank]

Evaluation of duplicate precision is not applicable if either the sample or duplicate results are below the MDC.

Comments:

28/8/16

Quality Control Sample Performance Assessment

Analyst Must Manually Enter All Fields Highlighted in Yellow.

Test: Ra-228
Analyst: JLW
Date: 8/4/2016
Worklist: 30698
Matrix: DW



Method Blank Assessment

MB Sample ID: 1119865
MB concentration: 0.599
MB Counting Uncertainty: 0.327
MB MDC: 0.624
MB Numerical Performance Indicator: 3.59
MB Status vs Numerical Indicator: N/A
MB Status vs. MDC: Pass

Laboratory Control Sample Assessment

LCSD (Y or N)?	Y
LCSD30698	8/8/2016
Count Date:	16-025
Spike I.D.:	25.991
Spike Concentration (pCi/mL):	0.20
Volume Used (mL):	0.809
Aliquot Volume (L, g, F):	6.429
Target Conc. (pCi/L, g, F):	0.463
Uncertainty (Calculated):	4.591
Result (pCi/L, g, F):	0.616
LCSD/LCSD Counting Uncertainty (pCi/L, g, F):	71.41%
Numerical Performance Indicator:	N/A
Status vs Recovery:	Pass

Duplicate Sample Assessment

Sample I.D.: LCSD30698
Duplicate Sample I.D.: LCSD30698
Sample Result Counting Uncertainty (pCi/L, g, F): 5.872
Sample Duplicate Counting Uncertainty (pCi/L, g, F): 0.704
Sample Duplicate Result Counting Uncertainty (pCi/L, g, F): 4.591
Sample Duplicate Result Counting Uncertainty (pCi/L, g, F): 0.616
Are sample and/or duplicate results below MDC? NO
Duplicate Numerical Performance Indicator: 2.683
Duplicate RPD: 24.47%
Duplicate Status vs Numerical Indicator: N/A
Duplicate Status vs RPD: Pass

Sample Matrix Spike Control Assessment

Sample Collection Date:
Sample I.D.:
Sample MS I.D.:
Sample MSD I.D.:
Spike I.D.:
MS/MSD Decay Corrected Spike Concentration (pCi/mL):
Spike Volume Used in MS (mL):
Spike Volume Used in MSD (mL):
MS Aliquot (L, g, F):
MS Target Conc. (pCi/L, g, F):
MSD Aliquot (L, g, F):
MSD Target Conc. (pCi/L, g, F):
Spike uncertainty (calculated):
Sample Result Counting Uncertainty (pCi/L, g, F):
Sample Matrix Spike Result:
Matrix Spike Result Counting Uncertainty (pCi/L, g, F):
Sample Matrix Spike Duplicate Result:
Matrix Spike Duplicate Result Counting Uncertainty (pCi/L, g, F):
MS Numerical Performance Indicator:
MS Percent Recovery:
MSD Percent Recovery:
MS Status vs Numerical Indicator:
MSD Status vs Numerical Indicator:
MS Status vs Recovery:
MSD Status vs Recovery:

Matrix Spike/Matrix Spike Duplicate Sample Assessment

Sample I.D.:
Sample MS I.D.:
Sample MSD I.D.:
Matrix Spike Result Counting Uncertainty (pCi/L, g, F):
Sample Matrix Spike Result:
Sample Matrix Spike Duplicate Result:
Matrix Spike Duplicate Result Counting Uncertainty (pCi/L, g, F):
Duplicate Numerical Performance Indicator:
MS/MSD Duplicate Status vs Numerical Indicator:
MS/MSD Duplicate Status vs RPD:

Evaluation of duplicate precision is not applicable if either the sample or duplicate results are below the MDC.

Comments:

Handwritten signature: JLW 8/18/16

Quality Control Sample Performance Assessment



Analyst Must Manually Enter All Fields Highlighted in Yellow.

Test: Ra-228
Analyst: JLW
Date: 7/22/2016
Worklist: 30436
Matrix: DW

Method Blank Assessment

MB Sample ID: 1111749
MB Concentration: 0.746
MB Counting Uncertainty: 0.339
MB MDC: 0.611
MB Numerical Performance Indicator: 4.32
MB Status vs Numerical Indicator: N/A
MB Status vs. MDC: See Comment*

Laboratory Control Sample Assessment

Count Date:	LCS (Y or N)?
7/28/2016	LCS30436
16-025	16-025
26.085	26.085
0.20	0.20
0.804	0.800
6.480	6.518
0.467	0.469
7.884	4.983
3.900	3.250
0.70	-0.92
121.48%	76.45%
N/A	N/A
Pass	Pass

Duplicate Sample Assessment

Sample I.D.: LCS30436
Duplicate Sample I.D.: LCS30436
Sample Result Counting Uncertainty (pCi/L, g, F): 7.884
Sample Duplicate Result Counting Uncertainty (pCi/L, g, F): 3.900
Sample Duplicate Result Counting Uncertainty (pCi/L, g, F): 4.983
Are sample and/or duplicate results below MDC? **NO**
Duplicate Numerical Performance Indicator: 1.120
Duplicate RPD: 45.10%
Duplicate Status vs Numerical Indicator: N/A
Duplicate Status vs RPD: Fail**

Enter Duplicate sample IDs if other than LCS/LCSD in the space below.

Evaluation of duplicate precision is not applicable if either the sample or duplicate results are below the MDC.

Comments:
*The method blank result is below the reporting limit for this analysis and is acceptable.
**Batch must be re-prepared due to unacceptable precision.

8/8/16

* Numerical Indicator 'samples' is acceptable w/ samples.

August 08, 2016

Maria Padilla
GA Power
2480 Maner Rd
Atlanta, GA 30339

RE: Project: Plant Scherer
Pace Project No.: 30188595

Dear Maria Padilla:

Enclosed are the analytical results for sample(s) received by the laboratory on June 30, 2016. The results relate only to the samples included in this report. Results reported herein conform to the most current TNI standards and the laboratory's Quality Assurance Manual, where applicable, unless otherwise noted in the body of the report.

If you have any questions concerning this report, please feel free to contact me.

Sincerely,



Jacquelyn Collins
jacquelyn.collins@pacelabs.com
Project Manager

Enclosures



REPORT OF LABORATORY ANALYSIS

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CERTIFICATIONS

Project: Plant Scherer
Pace Project No.: 30188595

Pennsylvania Certification IDs

1638 Roseytown Rd Suites 2,3&4, Greensburg, PA 15601
L-A-B DOD-ELAP Accreditation #: L2417
Alabama Certification #: 41590
Arizona Certification #: AZ0734
Arkansas Certification
California Certification #: 04222CA
Colorado Certification
Connecticut Certification #: PH-0694
Delaware Certification
Florida/TNI Certification #: E87683
Georgia Certification #: C040
Guam Certification
Hawaii Certification
Idaho Certification
Illinois Certification
Indiana Certification
Iowa Certification #: 391
Kansas/TNI Certification #: E-10358
Kentucky Certification #: 90133
Louisiana DHH/TNI Certification #: LA140008
Louisiana DEQ/TNI Certification #: 4086
Maine Certification #: PA00091
Maryland Certification #: 308
Massachusetts Certification #: M-PA1457
Michigan/PADEP Certification
Missouri Certification #: 235

Montana Certification #: Cert 0082
Nebraska Certification #: NE-05-29-14
Nevada Certification #: PA014572015-1
New Hampshire/TNI Certification #: 2976
New Jersey/TNI Certification #: PA 051
New Mexico Certification #: PA01457
New York/TNI Certification #: 10888
North Carolina Certification #: 42706
North Dakota Certification #: R-190
Oregon/TNI Certification #: PA200002
Pennsylvania/TNI Certification #: 65-00282
Puerto Rico Certification #: PA01457
Rhode Island Certification #: 65-00282
South Dakota Certification
Tennessee Certification #: TN2867
Texas/TNI Certification #: T104704188-14-8
Utah/TNI Certification #: PA014572015-5
USDA Soil Permit #: P330-14-00213
Vermont Dept. of Health: ID# VT-0282
Virgin Island/PADEP Certification
Virginia/VELAP Certification #: 460198
Washington Certification #: C868
West Virginia DEP Certification #: 143
West Virginia DHHR Certification #: 9964C
Wisconsin Certification
Wyoming Certification #: 8TMS-L

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SAMPLE SUMMARY

Project: Plant Scherer
Pace Project No.: 30188595

Lab ID	Sample ID	Matrix	Date Collected	Date Received
30188595001	SGWC-10	Water	06/28/16 08:29	06/30/16 09:40
30188595002	SGWC-13	Water	06/28/16 11:05	06/30/16 09:40
30188595003	SGWC-16	Water	06/28/16 13:45	06/30/16 09:40
30188595004	FB-6	Water	06/28/16 13:58	06/30/16 09:40

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SAMPLE ANALYTE COUNT

Project: Plant Scherer

Pace Project No.: 30188595

Lab ID	Sample ID	Method	Analysts	Analytes Reported
30188595001	SGWC-10	EPA 9315	JAL	1
		EPA 9320	JLW	1
		Total Radium Calculation	RMK	1
30188595002	SGWC-13	EPA 9315	JAL	1
		EPA 9320	JLW	1
		Total Radium Calculation	RMK	1
30188595003	SGWC-16	EPA 9315	JAL	1
		EPA 9320	JLW	1
		Total Radium Calculation	RMK	1
30188595004	FB-6	EPA 9315	JAL	1
		EPA 9320	JLW	1
		Total Radium Calculation	RMK	1

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: Plant Scherer

Pace Project No.: 30188595

Parameters		Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
Radium-226		EPA 9315	0.0865 ± 0.120 (0.254) C:89% T:NA	pCi/L	07/25/16 12:35	13982-63-3	
Radium-228		EPA 9320	1.48 ± 0.504 (0.702) C:70% T:96%	pCi/L	08/08/16 12:02	15262-20-1	
Total Radium		Total Radium Calculation	1.57 ± 0.624 (0.956)	pCi/L	08/08/16 17:39	7440-14-4	

Parameters		Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
Radium-226		EPA 9315	0.0282 ± 0.0951 (0.238) C:91% T:NA	pCi/L	07/25/16 12:36	13982-63-3	
Radium-228		EPA 9320	0.455 ± 0.358 (0.703) C:72% T:85%	pCi/L	08/08/16 12:02	15262-20-1	
Total Radium		Total Radium Calculation	0.483 ± 0.453 (0.941)	pCi/L	08/08/16 17:39	7440-14-4	

Parameters		Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
Radium-226		EPA 9315	0.0764 ± 0.129 (0.290) C:91% T:NA	pCi/L	07/25/16 12:36	13982-63-3	
Radium-228		EPA 9320	0.342 ± 0.299 (0.597) C:73% T:93%	pCi/L	08/08/16 12:02	15262-20-1	
Total Radium		Total Radium Calculation	0.418 ± 0.428 (0.887)	pCi/L	08/08/16 17:39	7440-14-4	

Parameters		Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
Radium-226		EPA 9315	0.0511 ± 0.120 (0.284) C:94% T:NA	pCi/L	07/25/16 12:36	13982-63-3	
Radium-228		EPA 9320	0.743 ± 0.345 (0.571) C:71% T:106%	pCi/L	08/08/16 12:02	15262-20-1	
Total Radium		Total Radium Calculation	0.794 ± 0.465 (0.855)	pCi/L	08/08/16 17:39	7440-14-4	

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL - RADIOCHEMISTRY

Project: Plant Scherer

Pace Project No.: 30188595

QC Batch:	227093	Analysis Method:	EPA 9315
QC Batch Method:	EPA 9315	Analysis Description:	9315 Total Radium
Associated Lab Samples:	30188595001, 30188595002, 30188595003, 30188595004		

METHOD BLANK:	1112536	Matrix:	Water
Associated Lab Samples:	30188595001, 30188595002, 30188595003, 30188595004		

Parameter	Act ± Unc (MDC) Carr Trac	Units	Analyzed	Qualifiers
Radium-226	-0.00719 ± 0.0736 (0.217) C:97% T:NA	pCi/L	07/25/16 12:28	

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL - RADIOCHEMISTRY

Project: Plant Scherer

Pace Project No.: 30188595

QC Batch: 228621 Analysis Method: EPA 9320

QC Batch Method: EPA 9320 Analysis Description: 9320 Radium 228

Associated Lab Samples: 30188595001, 30188595002, 30188595003, 30188595004

METHOD BLANK: 1119865 Matrix: Water

Associated Lab Samples: 30188595001, 30188595002, 30188595003, 30188595004

Parameter	Act ± Unc (MDC) Carr Trac	Units	Analyzed	Qualifiers
Radium-228	0.599 ± 0.344 (0.624) C:74% T:94%	pCi/L	08/08/16 12:00	

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

REPORT OF LABORATORY ANALYSIS

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QUALIFIERS

Project: Plant Scherer
Pace Project No.: 30188595

DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to dilution of the sample aliquot.

ND - Not Detected at or above adjusted reporting limit.

J - Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit.

MDL - Adjusted Method Detection Limit.

PQL - Practical Quantitation Limit.

RL - Reporting Limit.

S - Surrogate

1,2-Diphenylhydrazine decomposes to and cannot be separated from Azobenzene using Method 8270. The result for each analyte is a combined concentration.

Consistent with EPA guidelines, unrounded data are displayed and have been used to calculate % recovery and RPD values.

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

U - Indicates the compound was analyzed for, but not detected.

N-Nitrosodiphenylamine decomposes and cannot be separated from Diphenylamine using Method 8270. The result reported for each analyte is a combined concentration.

Act - Activity

Unc - Uncertainty: SDWA = 1.96 sigma count uncertainty, all other matrices = Expanded Uncertainty (95% confidence interval).

Gamma Spec = Expanded Uncertainty (95.4% Confidence Interval)

(MDC) - Minimum Detectable Concentration

Trac - Tracer Recovery (%)

Carr - Carrier Recovery (%)

Pace Analytical is TNI accredited. Contact your Pace PM for the current list of accredited analytes.

TNI - The NELAC Institute.

REPORT OF LABORATORY ANALYSIS

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Georgia Power Environmental Laboratory
 NELAP Certification #E57554
 2480 Maner Road, BIN 39110
 Atlanta, Georgia 30339
 Phone: (404) 799-2100
 Company: 8-530-2100

ANALYSIS REQUEST AND CHAIN OF CUSTODY RECORD

LAB USE ONLY

Work Order No. _____
 Reviewed By: _____

11 Page 1 of 1


Sample Shipment Date:⁸ 6/29/16
 Sample Received Date:⁹ _____
 ¹² Standard Turnaround Time

Company:¹ Southern Company Services
 Report To: Joju Abraham
 Address:² 241 Ralph McGill Blvd SE B10185
Atlanta, GA 30308
 Phone/Fax:³ 404-506-7239
 Contact:⁴ Joju Abraham
 Project Location:⁵ Plant Scherer
 Account Number:⁶ _____
 Special _____
 Instructions:⁷ Scherer AP CCR GW

Sampled By:¹⁰ Miranda Steffan
 # of Business Days (Rush) _____
 (Must be cleared through Env. Lab. Prior to shipment)

Miranda Steffan
 Signature
 Authorization to subcontract analysis will be assumed acceptable by customer unless stated otherwise.

LAB USE ONLY LAB ID	Sample Number ¹⁴	Collection ¹⁵		Sample Description ¹⁶	Sample Type ¹⁷	Matrix ¹⁸	No. of Containers ¹⁹	PRESERVATIVE ²⁰			ANALYSIS REQUESTED ²¹	Sample Type Key: ²²			LAB USE ONLY ²³ Comments		
		Date	Time					HNO3	Ice	HNO3		G-Grab	O-Other	C-Composite		O-Oil	S-Solid
	SBWC-10	6/28/16	0829		G	GW	3										
	SBWC-13	6/28/16	1105		G	GW	3										
	SBWC-16	6/28/16	1345		G	GW	3										
	FB-16	6/28/16	1358		G	DW	1										

WO#: 30188595

 30188595

Relinquished by:²⁴ Miranda Steffan Date/Time: 6/29/16 0715
 Received by:²⁵ [Signature] Date/Time: 6/29/16 0715
 Relinquished by:²⁶ [Signature] Date/Time: 6/29/16 0850
 Received by:²⁷ [Signature] Date/Time: 6/29/16 0910
P.B. Pace

Sample Condition Upon Receipt Pittsburgh



Client Name: GA Power

Project # 30188595

Courier: Fed Ex UPS USPS Client Commercial Pace Other _____

Tracking #: 6812 5097 4257 | 6812 5097 3938

Custody Seal on Cooler/Box Present: yes no Seals intact: yes no

Thermometer Used N/A Type of Ice: Wet Blue None

Cooler Temperature Observed Temp N/A °C Correction Factor: N/A °C Final Temp: N/A °C

Temp should be above freezing to 6°C

Date and initials of person examining contents: RTB 7/1/16

Comments:

Yes	No	N/A
X		
X		
X		
X		
X		

Chain of Custody Present:				1.
Chain of Custody Filled Out:				2.
Chain of Custody Relinquished:				3.
Sampler Name & Signature on COC:				4.
Sample Labels match COC:				5.
-Includes date/time/ID/Analysis Matrix: <u>WT</u>				
Samples Arrived within Hold Time:	X			6.
Short Hold Time Analysis (<72hr remaining):		X		7.
Rush Turn Around Time Requested:		X		8.
Sufficient Volume:	X			9.
Correct Containers Used:	X			10.
-Pace Containers Used:		X		
Containers intact:	X			11.
Filtered volume received for Dissolved tests			X	12.
All containers needing preservation have been checked.	X			13.
All containers needing preservation are found to be in compliance with EPA recommendation.	X			<u>pH < 2</u>
exceptions: VOA, coliform, TOC, O&G, Phenolics				initial when completed <u>7/1/16</u> <u>RTB</u> Date/time of preservation
				Lot # of added preservative
Headspace in VOA Vials (>6mm):			X	14.
Trip Blank Present:			X	15.
Trip Blank Custody Seals Present			X	

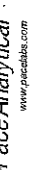
Client Notification/ Resolution:

Person Contacted: _____ Date/Time: _____ Contacted By: _____

Comments/ Resolution: _____

Note: Whenever there is a discrepancy affecting North Carolina compliance samples, a copy of this form will be sent to the North Carolina DEHNR Certification Office (i.e. out of hold, incorrect preservative, out of temp, incorrect containers)

Quality Control Sample Performance Assessment



www.pacedba.com

Analyst Must Manually Enter All Fields Highlighted in Yellow.

Test: Ra-226
Analyst: JAL
Date: 7/25/2016
Worklist: 30498
Matrix: DW

Method Blank Assessment

MB Sample ID: 1112536
MB concentration: -0.007
MB Counting Uncertainty: 0.074
MB MDC: 0.217
MB Numerical Performance Indicator: N/A
MB Status vs Numerical Indicator: Pass

Laboratory Control Sample Assessment

Count Date:	LCS30498	Y
7/25/2016	7/25/2016	
Spike I.D.:	16-001	
Spike Concentration (pCi/mL):	47.784	
Volume Used (mL):	0.10	
Aliquot Volume (L, g, F):	0.529	
Target Conc. (pCi/L, g, F):	9.036	
Uncertainty (Calculated):	0.447	
Result (pCi/L, g, F):	8.369	
LCS/LCSD Counting Uncertainty (pCi/L, g, F):	0.739	
Numerical Performance Indicator:	-2.57	
Percent Recovery:	87.98%	
Status vs Numerical Indicator:	N/A	
Duplicate Status vs Recovery:	Pass	

Duplicate Sample Assessment

Sample I.D.: LCS30498
Duplicate Sample I.D.: LCS30498
Sample Result Counting Uncertainty (pCi/L, g, F): 8.369
Sample Duplicate Result Counting Uncertainty (pCi/L, g, F): 0.750
Sample Duplicate Result Counting Uncertainty (pCi/L, g, F): 8.085
Are sample and/or duplicate results below MDC? NO
Duplicate Numerical Performance Indicator: 0.567
Duplicate RPD: 3.71%
Duplicate Status vs Numerical Indicator: N/A
Duplicate Status vs RPD: Pass

Sample Matrix Spike Control Assessment

Sample Collection Date:
Sample I.D.:
Sample MS I.D.:
Sample MSD I.D.:
Spike I.D.:
MS/MSD Decay Corrected Spike Concentration (pCi/mL):
Spike Volume Used in MS (mL):
Spike Volume Used in MSD (mL):
MS Aliquot (L, g, F):
MS Target Conc. (pCi/L, g, F):
MSD Aliquot (L, g, F):
MSD Target Conc. (pCi/L, g, F):
Spike uncertainty (calculated):
Sample Result Counting Uncertainty (pCi/L, g, F):
Sample Matrix Spike Result:
Matrix Spike Result Counting Uncertainty (pCi/L, g, F):
Sample Matrix Spike Duplicate Result:
Matrix Spike Duplicate Result Counting Uncertainty (pCi/L, g, F):
MS Numerical Performance Indicator:
MSD Numerical Performance Indicator:
MS Percent Recovery:
MSD Percent Recovery:
MS Status vs Numerical Indicator:
MSD Status vs Numerical Indicator:
MS Status vs Recovery:
MSD Status vs Recovery:

Matrix Spike/Matrix Spike Duplicate Sample Assessment

Sample I.D.:
Sample MS I.D.:
Sample MSD I.D.:
Sample Matrix Spike Result:
Matrix Spike Result Counting Uncertainty (pCi/L, g, F):
Sample Matrix Spike Duplicate Result:
Matrix Spike Duplicate Result Counting Uncertainty (pCi/L, g, F):
Duplicate Numerical Performance Indicator:
MS/MSD Duplicate Status vs Numerical Indicator:
MS/MSD Duplicate Status vs RPD:

Evaluation of duplicate precision is not applicable if either the sample or duplicate results are below the MDC.

Comments:

28/8/16

Quality Control Sample Performance Assessment

Analyst Must Manually Enter All Fields Highlighted in Yellow.

Test: Ra-228
Analyst: JLW
Date: 7/22/2016
Worklist: 30436
Matrix: DW



Method Blank Assessment

MB Sample ID: 1111749
MB concentration: 0.746
MB Counting Uncertainty: 0.339
MB MDC: 0.611
MB Numerical Performance Indicator: 4.32
MB Status vs Numerical Indicator: N/A
MB Status vs MDC: See Comment*

Laboratory Control Sample Assessment

Count Date:	LCS (Y or N)?
7/28/2016	Y
16-025	LCS30436
26.085	7/28/2016
0.20	16-025
0.800	26.085
6.518	0.20
0.469	0.800
4.983	6.518
3.250	0.469
76.45%	4.983
N/A	3.250
Pass	76.45%
Pass	N/A

Duplicate Sample Assessment

Sample I.D.: LCS30436
Duplicate Sample I.D.: LCS30436
Sample Result Counting Uncertainty (pCi/L, g, F): 7.884
Sample Duplicate Result Counting Uncertainty (pCi/L, g, F): 3.900
Sample Duplicate Result Counting Uncertainty (pCi/L, g, F): 4.983
Are sample and/or duplicate results below MDC? NO
Duplicate Numerical Performance Indicator: 1.120
Duplicate RPD: 45.10%
Duplicate Status vs Numerical Indicator: N/A
Duplicate Status vs RPD: Fail***

Sample Matrix Spike Control Assessment

Sample Collection Date:
Sample I.D.:
Sample MS I.D.:
Spike I.D.:
Spike Volume Used in MS (mL):
Spike Volume Used in MSD (mL):
MS Aliquot (L, g, F):
MS Target Conc. (pCi/L, g, F):
MSD Aliquot (L, g, F):
MSD Target Conc. (pCi/L, g, F):
Spike uncertainty (calculated):
Sample Result Counting Uncertainty (pCi/L, g, F):
Sample Matrix Spike Result:
Matrix Spike Result Counting Uncertainty (pCi/L, g, F):
Sample Matrix Spike Duplicate Result:
Matrix Spike Duplicate Result Counting Uncertainty (pCi/L, g, F):
MS Numerical Performance Indicator:
MSD Numerical Performance Indicator:
MS Percent Recovery:
MSD Percent Recovery:
MS Status vs Numerical Indicator:
MSD Status vs Numerical Indicator:
MS Status vs Recovery:
MSD Status vs Recovery:

Matrix Spike/Matrix Spike Duplicate Sample Assessment

Sample I.D.:
Sample MS I.D.:
Sample MSD I.D.:
Matrix Spike Result Counting Uncertainty (pCi/L, g, F):
Sample Matrix Spike Duplicate Result:
Sample Matrix Spike Duplicate Result Counting Uncertainty (pCi/L, g, F):
Duplicate Numerical Performance Indicator:
MS/MSD Duplicate RPD:
MS/MSD Duplicate Status vs Numerical Indicator:
MS/MSD Duplicate Status vs RPD:

Evaluation of duplicate precision is not applicable if either the sample or duplicate results are below the MDC.

Comments:
*The method blank result is below the reporting limit for this analysis and is acceptable.
***Batch must be re-prepped due to unacceptable precision.

28/8/16

* Numerical Indicator 'samples' is acceptable w/ samples.

Quality Control Sample Performance Assessment



Analyst Must Manually Enter All Fields Highlighted in Yellow.

Test: Ra-228
Analyst: JLW
Date: 8/4/2016
Worklist: 30698
Matrix: DW

Method Blank Assessment

MB Sample ID: 1119865
MB Concentration: 0.599
MB Counting Uncertainty: 0.327
MB MDC: 0.624
MB Numerical Performance Indicator: 3.59
MB Status vs Numerical Indicator: N/A
MB Status vs MDC: Pass

Laboratory Control Sample Assessment

Count Date:	Count	Y
8/8/2016	LCS30698	LCS30698
8/8/2016	16-025	16-025
25.991	25.991	25.991
0.20	0.20	0.20
0.809	0.809	0.809
6.429	6.429	6.429
0.468	0.468	0.468
5.872	5.872	5.872
0.704	0.704	0.704
-1.45	-1.45	-1.45
90.38%	90.38%	90.38%
N/A	N/A	N/A
<u>Pass</u>	<u>Pass</u>	<u>Pass</u>

Duplicate Sample Assessment

Sample I.D.: LCS30698
Duplicate Sample I.D.: LCS30698
Sample Result Counting Uncertainty (pCi/L, g, F): 5.872
Sample Duplicate Result Counting Uncertainty (pCi/L, g, F): 0.704
Sample Duplicate Result Counting Uncertainty (pCi/L, g, F): 4.591
Sample Duplicate Result Counting Uncertainty (pCi/L, g, F): 0.616
Are sample and/or duplicate results below MDC? NO
Duplicate Numerical Performance Indicator: 2.683
Duplicate RPD: 24.47%
Duplicate Status vs Numerical Indicator: N/A
Duplicate Status vs RPD: Pass

Enter Duplicate sample IDs if other than LCS/LCSD in the space below.

Comments:

Handwritten signature: JLW 8/18/16

August 08, 2016

Maria Padilla
GA Power
2480 Maner Rd
Atlanta, GA 30339

RE: Project: Plant Scherer
Pace Project No.: 30188592

Dear Maria Padilla:

Enclosed are the analytical results for sample(s) received by the laboratory on June 30, 2016. The results relate only to the samples included in this report. Results reported herein conform to the most current TNI standards and the laboratory's Quality Assurance Manual, where applicable, unless otherwise noted in the body of the report.

If you have any questions concerning this report, please feel free to contact me.

Sincerely,



Jacquelyn Collins
jacquelyn.collins@pacelabs.com
Project Manager

Enclosures



REPORT OF LABORATORY ANALYSIS

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CERTIFICATIONS

Project: Plant Scherer

Pace Project No.: 30188592

Pennsylvania Certification IDs

1638 Roseytown Rd Suites 2,3&4, Greensburg, PA 15601

L-A-B DOD-ELAP Accreditation #: L2417

Alabama Certification #: 41590

Arizona Certification #: AZ0734

Arkansas Certification

California Certification #: 04222CA

Colorado Certification

Connecticut Certification #: PH-0694

Delaware Certification

Florida/TNI Certification #: E87683

Georgia Certification #: C040

Guam Certification

Hawaii Certification

Idaho Certification

Illinois Certification

Indiana Certification

Iowa Certification #: 391

Kansas/TNI Certification #: E-10358

Kentucky Certification #: 90133

Louisiana DHH/TNI Certification #: LA140008

Louisiana DEQ/TNI Certification #: 4086

Maine Certification #: PA00091

Maryland Certification #: 308

Massachusetts Certification #: M-PA1457

Michigan/PADEP Certification

Missouri Certification #: 235

Montana Certification #: Cert 0082

Nebraska Certification #: NE-05-29-14

Nevada Certification #: PA014572015-1

New Hampshire/TNI Certification #: 2976

New Jersey/TNI Certification #: PA 051

New Mexico Certification #: PA01457

New York/TNI Certification #: 10888

North Carolina Certification #: 42706

North Dakota Certification #: R-190

Oregon/TNI Certification #: PA200002

Pennsylvania/TNI Certification #: 65-00282

Puerto Rico Certification #: PA01457

Rhode Island Certification #: 65-00282

South Dakota Certification

Tennessee Certification #: TN2867

Texas/TNI Certification #: T104704188-14-8

Utah/TNI Certification #: PA014572015-5

USDA Soil Permit #: P330-14-00213

Vermont Dept. of Health: ID# VT-0282

Virgin Island/PADEP Certification

Virginia/VELAP Certification #: 460198

Washington Certification #: C868

West Virginia DEP Certification #: 143

West Virginia DHHR Certification #: 9964C

Wisconsin Certification

Wyoming Certification #: 8TMS-L

REPORT OF LABORATORY ANALYSIS

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SAMPLE SUMMARY

Project: Plant Scherer
Pace Project No.: 30188592

Lab ID	Sample ID	Matrix	Date Collected	Date Received
30188592001	SGWC-11	Water	06/28/16 09:36	06/30/16 09:40
30188592002	SGWC-14	Water	06/28/16 13:32	06/30/16 09:40
30188592003	DUP-6	Water	06/28/16 00:01	06/30/16 09:40

REPORT OF LABORATORY ANALYSIS

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without the written consent of Pace Analytical Services, Inc..

SAMPLE ANALYTE COUNT

Project: Plant Scherer
Pace Project No.: 30188592

Lab ID	Sample ID	Method	Analysts	Analytes Reported
30188592001	SGWC-11	EPA 9315	JAL	1
		EPA 9320	JLW	1
		Total Radium Calculation	RMK	1
30188592002	SGWC-14	EPA 9315	JAL	1
		EPA 9320	JLW	1
		Total Radium Calculation	RMK	1
30188592003	DUP-6	EPA 9315	JAL	1
		EPA 9320	JLW	1
		Total Radium Calculation	RMK	1

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: Plant Scherer

Pace Project No.: 30188592

Sample: SGWC-11 **Lab ID: 30188592001** Collected: 06/28/16 09:36 Received: 06/30/16 09:40 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
Radium-226	EPA 9315	-0.00141 ± 0.0909 (0.250) C:61% T:NA	pCi/L	07/31/16 06:59	13982-63-3	
Radium-228	EPA 9320	0.859 ± 0.355 (0.540) C:78% T:92%	pCi/L	08/08/16 12:01	15262-20-1	
Total Radium	Total Radium Calculation	0.858 ± 0.446 (0.790)	pCi/L	08/08/16 17:39	7440-14-4	

Sample: SGWC-14 **Lab ID: 30188592002** Collected: 06/28/16 13:32 Received: 06/30/16 09:40 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
Radium-226	EPA 9315	-0.0110 ± 0.0629 (0.196) C:63% T:NA	pCi/L	07/31/16 06:59	13982-63-3	
Radium-228	EPA 9320	0.746 ± 0.399 (0.706) C:71% T:87%	pCi/L	08/08/16 12:01	15262-20-1	
Total Radium	Total Radium Calculation	0.735 ± 0.462 (0.902)	pCi/L	08/08/16 17:39	7440-14-4	

Sample: DUP-6 **Lab ID: 30188592003** Collected: 06/28/16 00:01 Received: 06/30/16 09:40 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
Radium-226	EPA 9315	0.112 ± 0.108 (0.196) C:63% T:NA	pCi/L	07/31/16 06:59	13982-63-3	
Radium-228	EPA 9320	0.789 ± 0.354 (0.564) C:75% T:92%	pCi/L	08/08/16 12:01	15262-20-1	
Total Radium	Total Radium Calculation	0.901 ± 0.462 (0.760)	pCi/L	08/08/16 17:39	7440-14-4	

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL - RADIOCHEMISTRY

Project: Plant Scherer

Pace Project No.: 30188592

QC Batch: 227094 Analysis Method: EPA 9315

QC Batch Method: EPA 9315 Analysis Description: 9315 Total Radium

Associated Lab Samples: 30188592001, 30188592002, 30188592003

METHOD BLANK: 1112538 Matrix: Water

Associated Lab Samples: 30188592001, 30188592002, 30188592003

Parameter	Act ± Unc (MDC) Carr Trac	Units	Analyzed	Qualifiers
Radium-226	-0.0383 ± 0.0434 (0.181) C:69% T:NA	pCi/L	07/31/16 06:59	

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL - RADIOCHEMISTRY

Project: Plant Scherer
Pace Project No.: 30188592

QC Batch: 228621 Analysis Method: EPA 9320
QC Batch Method: EPA 9320 Analysis Description: 9320 Radium 228
Associated Lab Samples: 30188592001, 30188592002, 30188592003

METHOD BLANK: 1119865 Matrix: Water
Associated Lab Samples: 30188592001, 30188592002, 30188592003

Parameter	Act ± Unc (MDC) Carr Trac	Units	Analyzed	Qualifiers
Radium-228	0.599 ± 0.344 (0.624) C:74% T:94%	pCi/L	08/08/16 12:00	

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

REPORT OF LABORATORY ANALYSIS

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QUALIFIERS

Project: Plant Scherer

Pace Project No.: 30188592

DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to dilution of the sample aliquot.

ND - Not Detected at or above adjusted reporting limit.

J - Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit.

MDL - Adjusted Method Detection Limit.

PQL - Practical Quantitation Limit.

RL - Reporting Limit.

S - Surrogate

1,2-Diphenylhydrazine decomposes to and cannot be separated from Azobenzene using Method 8270. The result for each analyte is a combined concentration.

Consistent with EPA guidelines, unrounded data are displayed and have been used to calculate % recovery and RPD values.

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

U - Indicates the compound was analyzed for, but not detected.

N-Nitrosodiphenylamine decomposes and cannot be separated from Diphenylamine using Method 8270. The result reported for each analyte is a combined concentration.

Act - Activity

Unc - Uncertainty: SDWA = 1.96 sigma count uncertainty, all other matrices = Expanded Uncertainty (95% confidence interval).

Gamma Spec = Expanded Uncertainty (95.4% Confidence Interval)

(MDC) - Minimum Detectable Concentration

Trac - Tracer Recovery (%)

Carr - Carrier Recovery (%)

Pace Analytical is TNI accredited. Contact your Pace PM for the current list of accredited analytes.

TNI - The NELAC Institute.

REPORT OF LABORATORY ANALYSIS

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Georgia Power Environmental Laboratory
 NELAP Certification #E57554
 2480 Maner Road, BIN 39110
 Atlanta, Georgia 30339
 Phone: (404) 799-2100
 Company: 8-530-2100

ANALYSIS REQUEST AND CHAIN OF CUSTODY RECORD

LAB USE ONLY
 Work Order No. _____
 Reviewed By: _____

17 Page 1 of 1

Sample Shipment Date:⁸ 6/29/16
 Sample Received Date:⁹ _____
 Sampled By:¹⁰ R. Hilliard

Company:¹ Southern Company Services
 Report To: Jojo Abraham
 Address:² 241 Ralph McGill Blvd SE B10185
Atlanta, GA 30308
 Phone/Fax:³ 404-506-7239
 Contact:⁴ Jojo Abraham
 Project Location:⁵ Plant Scherer
 Account Number:⁶ _____
 Special Instructions:⁷ Scherer AP CCR GW

¹² Standard Turnaround Time
 # of Business Days (Rush)
 (Must be cleared through Env. Lab. Prior to shipment)


[Signature]
 Signature

Authorization to subcontract analysis will be assumed acceptable by customer unless stated otherwise.

PRESERVATIVE ²⁰		ANALYSIS REQUESTED ²¹		Sample Type Key: ²²
HNO3	Ice	HNO3		G-Grab C-Other C-Composite
N	N	N		
		Metals app. III & IV		Matrix Key: ²³ C-Oil S-Solid SL-Sludge W-Wipe SW-Surface Water GW-Ground Water WW-Waste Water DW-Drinking Water
		EPA 6020 & EPA 7470		
		Cl, F, SO4 EPA 300		
		TDS SM2540C		
		Radium 226/228: SW-846 9315 & 9320		Preservative Key: ²⁴ H-Hydrochloric Acid N-Nitric Acid S-Sulfuric Acid SF-Sodium Hydroxide SB-Sodium Bisulfate P-Phosphoric Acid ST-Sodium Thiosulfate I-Ice U-Unpreserved
LAB USE ONLY - COMMENTS				

Sample Number ¹⁴	Collection ¹⁵		Sample Description ¹⁶	Matrix	No. of Containers	Sample Type
	Date	Time				
SGW-C-11	6/28/14	09:36		GW	3	1
SGW-C-14	6/28/14	13:32		GW	3	1
DUP-6	6/28/14	-	Field Duplicate	GW	3	1

WO#: 30188592



30188592

LAB USE ONLY - Sample Receipt Information ²⁵	
Relinquished by: ²⁶ <u>[Signature]</u>	Date/Time: <u>6/29/16 07:15</u>
Received by: ²⁷ <u>[Signature]</u>	Date/Time: <u>6/29/16 07:15</u>
Relinquished by: <u>[Signature]</u>	Date/Time: <u>6/29/16 08:00</u>
Received by: <u>[Signature]</u>	Date/Time: <u>6/29/16 08:00</u>

9 of 13
 Page 6/30/16 0940

Sample Condition Upon Receipt Pittsburgh



Client Name: GA Power

Project # 30188592

Courier: Fed Ex UPS USPS Client Commercial Pace Other _____

Tracking #: 6812 5097 4257 | 6812 5097 3938

Custody Seal on Cooler/Box Present: yes no Seals intact: yes no

Thermometer Used N/A Type of Ice: Wet Blue None

Cooler Temperature Observed Temp N/A °C Correction Factor: N/A °C Final Temp: N/A °C

Temp should be above freezing to 6°C

Date and initials of person examining contents: RTB 7/1/16

Comments:

	Yes	No	N/A	
Chain of Custody Present:	X			1.
Chain of Custody Filled Out:	X			2.
Chain of Custody Relinquished:	X			3.
Sampler Name & Signature on COC:	X			4.
Sample Labels match COC:	X			5.
-Includes date/time/ID/Analysis Matrix: <u>WT</u>				
Samples Arrived within Hold Time:	X			6.
Short Hold Time Analysis (<72hr remaining):		X		7.
Rush Turn Around Time Requested:		X		8.
Sufficient Volume:	X			9.
Correct Containers Used:	X			10.
-Pace Containers Used:		X		
Containers Intact:	X			11.
Filtered volume received for Dissolved tests			X	12.
All containers needing preservation have been checked.	X			13.
All containers needing preservation are found to be in compliance with EPA recommendation.	X			
exceptions: VOA, coliform, TOC, O&G, Phenolics				
				Initial when completed <u>7/1/16</u> <u>RTB</u> Date/time of preservation
				Lot # of added preservative
Headspace in VOA Vials (>6mm):			X	14.
Trip Blank Present:			X	15.
Trip Blank Custody Seals Present			X	

Client Notification/ Resolution:

Person Contacted: _____ Date/Time: _____ Contacted By: _____

Comments/ Resolution: _____

Note: Whenever there is a discrepancy affecting North Carolina compliance samples, a copy of this form will be sent to the North Carolina DEHNR Certification Office (i.e out of hold, incorrect preservative, out of temp, incorrect containers)

Quality Control Sample Performance Assessment



Analyst Must Manually Enter All Fields Highlighted in Yellow.

Test: Ra-226
Analyst: JAL
Date: 7/27/2016
Worklist: 30499
Matrix: DW

Method Blank Assessment

MB Sample ID: 1112538
MB concentration: -0.038
MB Counting Uncertainty: 0.043
MB MDC: 0.181
MB Numerical Performance Indicator: -1.74
MB Status vs Numerical Indicator: N/A
MB Status vs. MDC: Pass

Laboratory Control Sample Assessment

LCS (Y or N)? Y

Count Date:	LCS30499	LCS30499
Spike I.D.:	7/31/2016	7/31/2016
Spike Concentration (pCi/mL):	16.001	16.001
Volume Used (mL):	47.784	47.784
Aliquot Volume (L, g, F):	0.10	0.10
Target Conc. (pCi/L, g, F):	0.507	0.515
Uncertainty (Calculated):	9.430	9.273
Result (pCi/L, g, F):	0.444	0.436
LCS/LCSD Counting Uncertainty (pCi/L, g, F):	7.744	7.165
Numerical Performance Indicator:	0.590	0.535
Percent Recovery:	-4.48	-5.98
Status vs Numerical Indicator:	N/A	N/A
Status vs Recovery:	Pass	Pass

Duplicate Sample Assessment

Sample I.D.: LCS30499
Duplicate Sample I.D.: LCS30499
Sample Result (pCi/L, g, F): 7.744
Sample Duplicate Result (pCi/L, g, F): 0.590
Sample Duplicate Counting Uncertainty (pCi/L, g, F): 7.165
Sample Duplicate Result Counting Uncertainty (pCi/L, g, F): 0.535
Are sample and/or duplicate results below MDC? NO
Duplicate Numerical Performance Indicator: 1.424
Duplicate RPD: 7.77%
Duplicate Status vs Numerical Indicator: N/A
Duplicate Status vs RPD: Pass

Sample Matrix Spike Control Assessment

Sample Collection Date:
Sample I.D.:
Sample MS I.D.:
Sample MSD I.D.:
Spike I.D.:
MS/MSD Decay Corrected Spike Concentration (pCi/mL):
Spike Volume Used in MS (mL):
Spike Volume Used in MSD (mL):
MS Aliquot (L, g, F):
MS Target Conc. (pCi/L, g, F):
MSD Aliquot (L, g, F):
MSD Target Conc. (pCi/L, g, F):
Spike uncertainty (calculated):
Sample Result Counting Uncertainty (pCi/L, g, F):
Sample Matrix Spike Result:
Matrix Spike Result Counting Uncertainty (pCi/L, g, F):
Sample Matrix Spike Duplicate Result:
Matrix Spike Duplicate Result Counting Uncertainty (pCi/L, g, F):
MS Numerical Performance Indicator:
MSD Numerical Performance Indicator:
MS Percent Recovery:
MSD Percent Recovery:
MS Status vs Numerical Indicator:
MSD Status vs Numerical Indicator:
MS Status vs Recovery:
MSD Status vs Recovery:

Matrix Spike/Matrix Spike Duplicate Sample Assessment

Sample I.D.:
Sample MS I.D.:
Sample MSD I.D.:
Sample Matrix Spike Result:
Matrix Spike Result Counting Uncertainty (pCi/L, g, F):
Sample Matrix Spike Duplicate Result:
Matrix Spike Duplicate Result Counting Uncertainty (pCi/L, g, F):
Duplicate Numerical Performance Indicator:
MS/MSD Duplicate RPD:
MS/MSD Duplicate Status vs Numerical Indicator:
MS/MSD Duplicate Status vs RPD:

Evaluation of duplicate precision is not applicable if either the sample or duplicate results are below the MDC.

Comments:

28/8/16

Quality Control Sample Performance Assessment

Analyst Must Manually Enter All Fields Highlighted in Yellow.



Test: Ra-228
Analyst: JLW
Date: 7/22/2016
Worklist: 30436
Matrix: DW

Method Blank Assessment

MB Sample ID: 1111749
MB Concentration: 0.746
MB Counting Uncertainty: 0.339
MB MDC: 0.811
MB Numerical Performance Indicator: 4.32
MB Status vs Numerical Indicator: N/A
MB Status vs. MDC: See Comment

Laboratory Control Sample Assessment

LCS#	Y or N?	Count Date	Spike I.D.	Spike Concentration (pCi/mL)	Volume Used (mL)	Aliquot Volume (L, g, F)	Target Conc. (pCi/L, g, F)	Uncertainty (Calculated)	Result (pCi/L, g, F)	LCS/LCSD Counting Uncertainty (pCi/L, g, F)	Percent Recovery	Numerical Performance Indicator	Status vs Recovery
LCS30436	Y	7/28/2016	16-025	26.085	0.20	0.804	6.480	0.467	7.884	3.900	0.70	121.48%	Pass
LCS30436	Y	7/28/2016	16-025	26.085	0.20	0.800	6.518	0.469	4.983	3.250	-0.92	76.45%	Pass

Duplicate Sample Assessment

Sample I.D.	Duplicate Sample I.D.	Sample Result (pCi/L, g, F)	Duplicate Result (pCi/L, g, F)	Sample Result Counting Uncertainty (pCi/L, g, F)	Duplicate Result Counting Uncertainty (pCi/L, g, F)	Are sample and/or duplicate results below MDC?	Duplicate Numerical Performance Indicator	Duplicate RPD	Duplicate Status vs Numerical Indicator	Duplicate Status vs RPD
LCS30436	LCS30436	7.884	3.900	4.983	3.250	NO	1.120	45.10%	N/A	Fail***

Sample Matrix Spike Control Assessment

Sample Collection Date:
Sample I.D.:
Sample MS I.D.:
Sample MSD I.D.:
Spike I.D.:
MS/MSD Decay Corrected Spike Concentration (pCi/mL):
Spike Volume Used in MS (mL):
Spike Volume Used in MSD (mL):
MS Aliquot (L, g, F):
MS Target Conc. (pCi/L, g, F):
MSD Aliquot (L, g, F):
MSD Target Conc. (pCi/L, g, F):
Spike uncertainty (calculated):
Sample Result Counting Uncertainty (pCi/L, g, F):
Sample Matrix Spike Result:
Matrix Spike Result Counting Uncertainty (pCi/L, g, F):
Sample Matrix Spike Duplicate Result:
Matrix Spike Duplicate Result Counting Uncertainty (pCi/L, g, F):
MS Numerical Performance Indicator:
MSD Numerical Performance Indicator:
MS Percent Recovery:
MSD Percent Recovery:
MS Status vs Numerical Indicator:
MSD Status vs Numerical Indicator:
MS Status vs Recovery:
MSD Status vs Recovery:

Matrix Spike/Matrix Spike Duplicate Sample Assessment

Sample I.D.:
Sample MS I.D.:
Sample MSD I.D.:
Matrix Spike Result Counting Uncertainty (pCi/L, g, F):
Sample Matrix Spike Duplicate Result:
Sample Matrix Spike Duplicate Result Counting Uncertainty (pCi/L, g, F):
Duplicate Numerical Performance Indicator:
MS/MSD Duplicate RPD:
MS/MSD Duplicate Status vs Numerical Indicator:
MS/MSD Duplicate Status vs RPD:

Evaluation of duplicate precision is not applicable if either the sample or duplicate results are below the MDC.

Comments:
*The method blank result is below the reporting limit for this analysis and is acceptable.

***Batch must be re-prepped due to unacceptable precision.

28/8/16

* Numerical Indicator 'w' samples. 1 of 1
is acceptable 'w' samples.

Quality Control Sample Performance Assessment

Analyst Must Manually Enter All Fields Highlighted in Yellow.

Test: Ra-228
Analyst: JLW
Date: 8/4/2016
Worklist: 30698
Matrix: DW



Method Blank Assessment

MB Sample ID: 1119865
MB Concentration: 0.599
MB Counting Uncertainty: 0.327
MB MDC: 0.624
MB Numerical Performance Indicator: 3.59
MB Status vs Numerical Indicator: N/A
MB Status vs MDC: Pass

Laboratory Control Sample Assessment

LCSID (Y or N)?	Y
LCS30698	LCS30698
Count Date:	8/8/2016
Spike I.D.:	16-025
Spike Concentration (pCi/mL):	25.991
Volume Used (mL):	0.20
Aliquot Volume (L, g, F):	0.800
Target Conc. (pCi/L, g, F):	6.496
Uncertainty (Calculated):	0.468
Result (pCi/L, g, F):	5.872
LCS/LCSD Counting Uncertainty (pCi/L, g, F):	0.704
Numerical Performance Indicator:	-1.45
Percent Recovery:	90.38%
Status vs Numerical Indicator:	N/A
Status vs Recovery:	Pass

Duplicate Sample Assessment

Sample I.D.: LCS30698
Duplicate Sample I.D.: LCS30698
Sample Result (pCi/L, g, F): 5.872
Sample Duplicate Result (pCi/L, g, F): 0.704
Sample Duplicate Counting Uncertainty (pCi/L, g, F): 4.591
Sample Duplicate Result Counting Uncertainty (pCi/L, g, F): 0.616
Are sample and/or duplicate results below MDC? NO
Duplicate Numerical Performance Indicator: 2.683
Duplicate RPD: 24.47%
Duplicate Status vs Numerical Indicator: N/A
Duplicate Status vs RPD: Pass

Evaluation of duplicate precision is not applicable if either the sample or duplicate results are below the MDC.

Comments:

JLW 8/16

Sample Matrix Spike Control Assessment

Sample Collection Date:
Sample I.D.:
Sample MS I.D.:
Sample MSD I.D.:
Spike I.D.:
MS/MSD Decay Corrected Spike Concentration (pCi/mL):
Spike Volume Used in MS (mL):
MS Aliquot (L, g, F):
MS Target Conc. (pCi/L, g, F):
MSD Aliquot (L, g, F):
MSD Target Conc. (pCi/L, g, F):
Spike uncertainty (calculated):
Sample Result Counting Uncertainty (pCi/L, g, F):
Sample Matrix Spike Result:
Matrix Spike Result Counting Uncertainty (pCi/L, g, F):
Sample Matrix Spike Duplicate Result:
Matrix Spike Duplicate Result Counting Uncertainty (pCi/L, g, F):
MS Numerical Performance Indicator:
MSD Numerical Performance Indicator:
MS Percent Recovery:
MSD Percent Recovery:
MS Status vs Numerical Indicator:
MSD Status vs Numerical Indicator:
MS Status vs Recovery:
MSD Status vs Recovery:

Matrix Spike/Matrix Spike Duplicate Sample Assessment

Sample I.D.:
Sample MS I.D.:
Sample MSD I.D.:
Matrix Spike Result Counting Uncertainty (pCi/L, g, F):
Sample Matrix Spike Duplicate Result:
Sample Matrix Spike Duplicate Counting Uncertainty (pCi/L, g, F):
Matrix Spike Duplicate Result Counting Uncertainty (pCi/L, g, F):
Duplicate Numerical Performance Indicator:
MS/MSD Duplicate RPD:
MS/MSD Duplicate Status vs Numerical Indicator:
MS/MSD Duplicate Status vs RPD:

August 08, 2016

Maria Padilla
GA Power
2480 Maner Rd
Atlanta, GA 30339

RE: Project: Plant Scherer
Pace Project No.: 30188594

Dear Maria Padilla:

Enclosed are the analytical results for sample(s) received by the laboratory on June 30, 2016. The results relate only to the samples included in this report. Results reported herein conform to the most current TNI standards and the laboratory's Quality Assurance Manual, where applicable, unless otherwise noted in the body of the report.

If you have any questions concerning this report, please feel free to contact me.

Sincerely,



Jacquelyn Collins
jacquelyn.collins@pacelabs.com
Project Manager

Enclosures



REPORT OF LABORATORY ANALYSIS

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CERTIFICATIONS

Project: Plant Scherer

Pace Project No.: 30188594

Pennsylvania Certification IDs

1638 Roseytown Rd Suites 2,3&4, Greensburg, PA 15601

L-A-B DOD-ELAP Accreditation #: L2417

Alabama Certification #: 41590

Arizona Certification #: AZ0734

Arkansas Certification

California Certification #: 04222CA

Colorado Certification

Connecticut Certification #: PH-0694

Delaware Certification

Florida/TNI Certification #: E87683

Georgia Certification #: C040

Guam Certification

Hawaii Certification

Idaho Certification

Illinois Certification

Indiana Certification

Iowa Certification #: 391

Kansas/TNI Certification #: E-10358

Kentucky Certification #: 90133

Louisiana DHH/TNI Certification #: LA140008

Louisiana DEQ/TNI Certification #: 4086

Maine Certification #: PA00091

Maryland Certification #: 308

Massachusetts Certification #: M-PA1457

Michigan/PADEP Certification

Missouri Certification #: 235

Montana Certification #: Cert 0082

Nebraska Certification #: NE-05-29-14

Nevada Certification #: PA014572015-1

New Hampshire/TNI Certification #: 2976

New Jersey/TNI Certification #: PA 051

New Mexico Certification #: PA01457

New York/TNI Certification #: 10888

North Carolina Certification #: 42706

North Dakota Certification #: R-190

Oregon/TNI Certification #: PA200002

Pennsylvania/TNI Certification #: 65-00282

Puerto Rico Certification #: PA01457

Rhode Island Certification #: 65-00282

South Dakota Certification

Tennessee Certification #: TN2867

Texas/TNI Certification #: T104704188-14-8

Utah/TNI Certification #: PA014572015-5

USDA Soil Permit #: P330-14-00213

Vermont Dept. of Health: ID# VT-0282

Virgin Island/PADEP Certification

Virginia/VELAP Certification #: 460198

Washington Certification #: C868

West Virginia DEP Certification #: 143

West Virginia DHHR Certification #: 9964C

Wisconsin Certification

Wyoming Certification #: 8TMS-L

REPORT OF LABORATORY ANALYSIS

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SAMPLE SUMMARY

Project: Plant Scherer

Pace Project No.: 30188594

Lab ID	Sample ID	Matrix	Date Collected	Date Received
30188594001	SGWC-12	Water	06/28/16 09:18	06/30/16 09:40
30188594002	SGWC-15	Water	06/28/16 13:55	06/30/16 09:40
30188594003	EQB-6	Water	06/28/16 14:45	06/30/16 09:40

REPORT OF LABORATORY ANALYSIS

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SAMPLE ANALYTE COUNT

Project: Plant Scherer
Pace Project No.: 30188594

Lab ID	Sample ID	Method	Analysts	Analytes Reported
30188594001	SGWC-12	EPA 9315	JAL	1
		EPA 9320	JLW	1
		Total Radium Calculation	RMK	1
30188594002	SGWC-15	EPA 9315	JAL	1
		EPA 9320	JLW	1
		Total Radium Calculation	RMK	1
30188594003	EQB-6	EPA 9315	JAL	1
		EPA 9320	JLW	1
		Total Radium Calculation	RMK	1

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: Plant Scherer

Pace Project No.: 30188594

Sample: SGWC-12 **Lab ID: 30188594001** Collected: 06/28/16 09:18 Received: 06/30/16 09:40 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
Radium-226	EPA 9315	0.00402 ± 0.0454 (0.129) C:93% T:NA	pCi/L	07/31/16 06:59	13982-63-3	
Radium-228	EPA 9320	0.431 ± 0.277 (0.504) C:75% T:94%	pCi/L	08/08/16 12:01	15262-20-1	
Total Radium	Total Radium Calculation	0.435 ± 0.322 (0.633)	pCi/L	08/08/16 17:39	7440-14-4	

Sample: SGWC-15 **Lab ID: 30188594002** Collected: 06/28/16 13:55 Received: 06/30/16 09:40 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
Radium-226	EPA 9315	-0.0524 ± 0.0391 (0.203) C:57% T:NA	pCi/L	07/31/16 07:15	13982-63-3	
Radium-228	EPA 9320	0.308 ± 0.275 (0.552) C:78% T:92%	pCi/L	08/08/16 12:01	15262-20-1	
Total Radium	Total Radium Calculation	0.256 ± 0.314 (0.755)	pCi/L	08/08/16 17:39	7440-14-4	

Sample: EQB-6 **Lab ID: 30188594003** Collected: 06/28/16 14:45 Received: 06/30/16 09:40 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
Radium-226	EPA 9315	-0.0266 ± 0.0730 (0.211) C:98% T:NA	pCi/L	07/31/16 07:15	13982-63-3	
Radium-228	EPA 9320	0.789 ± 0.390 (0.658) C:71% T:86%	pCi/L	08/08/16 12:01	15262-20-1	
Total Radium	Total Radium Calculation	0.762 ± 0.463 (0.869)	pCi/L	08/08/16 17:39	7440-14-4	

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL - RADIOCHEMISTRY

Project: Plant Scherer

Pace Project No.: 30188594

QC Batch: 227094 Analysis Method: EPA 9315

QC Batch Method: EPA 9315 Analysis Description: 9315 Total Radium

Associated Lab Samples: 30188594001, 30188594002, 30188594003

METHOD BLANK: 1112538 Matrix: Water

Associated Lab Samples: 30188594001, 30188594002, 30188594003

Parameter	Act ± Unc (MDC) Carr Trac	Units	Analyzed	Qualifiers
Radium-226	-0.0383 ± 0.0434 (0.181) C:69% T:NA	pCi/L	07/31/16 06:59	

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL - RADIOCHEMISTRY

Project: Plant Scherer

Pace Project No.: 30188594

QC Batch:	228621	Analysis Method:	EPA 9320
QC Batch Method:	EPA 9320	Analysis Description:	9320 Radium 228
Associated Lab Samples:	30188594001, 30188594002, 30188594003		

METHOD BLANK:	1119865	Matrix:	Water
Associated Lab Samples:	30188594001, 30188594002, 30188594003		

Parameter	Act ± Unc (MDC) Carr Trac	Units	Analyzed	Qualifiers
Radium-228	0.599 ± 0.344 (0.624) C:74% T:94%	pCi/L	08/08/16 12:00	

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

REPORT OF LABORATORY ANALYSIS

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QUALIFIERS

Project: Plant Scherer
Pace Project No.: 30188594

DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to dilution of the sample aliquot.

ND - Not Detected at or above adjusted reporting limit.

J - Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit.

MDL - Adjusted Method Detection Limit.

PQL - Practical Quantitation Limit.

RL - Reporting Limit.

S - Surrogate

1,2-Diphenylhydrazine decomposes to and cannot be separated from Azobenzene using Method 8270. The result for each analyte is a combined concentration.

Consistent with EPA guidelines, unrounded data are displayed and have been used to calculate % recovery and RPD values.

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

U - Indicates the compound was analyzed for, but not detected.

N-Nitrosodiphenylamine decomposes and cannot be separated from Diphenylamine using Method 8270. The result reported for each analyte is a combined concentration.

Act - Activity

Unc - Uncertainty: SDWA = 1.96 sigma count uncertainty, all other matrices = Expanded Uncertainty (95% confidence interval).

Gamma Spec = Expanded Uncertainty (95.4% Confidence Interval)

(MDC) - Minimum Detectable Concentration

Trac - Tracer Recovery (%)

Carr - Carrier Recovery (%)

Pace Analytical is TNI accredited. Contact your Pace PM for the current list of accredited analytes.

TNI - The NELAC Institute.

REPORT OF LABORATORY ANALYSIS

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Georgia Power Environmental Laboratory
NELAP Certification #E57554
2480 Maner Road, BIN 39110
Atlanta, Georgia 30339
Phone: (404) 799-2100
Company: 8-530-2100

Southern Company Services
Report To: Joju Abraham
Address: 241 Ralph McGill Blvd SE B10185
Atlanta, GA 30308
Phone/Fax: 404-506-7239
Contact: Joju Abraham
Project Location: Plant Scherer
Account Number: Scherer AP CCR GW
Special Instructions:

LAB USE ONLY

**ANALYSIS REQUEST AND
CHAIN OF CUSTODY RECORD**

Work Order No. _____
Reviewed By: _____
Page 1 of 1


Sample Shipment Date: 6/29/16
Sample Received Date:
of Business Days (Rush)
of Business Days (Must be cleared through Env. Lab. Prior to shipment)

LAB USE ONLY LAB ID	Sample Number ¹⁴	Collection ¹⁵		Sample Description ¹⁶	Sample Type ¹⁷	Matrix ¹⁸			No. of Containers ¹⁹	ANALYSIS REQUESTED ²¹			Sample Type Key: 22
		Date	Time			HNO3	Ice	HNO3		O-Other	C-Composite		
	5GWC-12	6/28/16	0918		G	GW			3				
	56WC-15	6/28/16	1355		G	GW			3				
	5QB-4	6/28/16	1445	Equipment Blend	G	DW			3				

Matrix Key: 23	O-Oil SW-Surface Water WW-Wastewater DW-Drinking Water	SL-Slags G-Cracked Glass DM-Drinking Water
Preservative Key: 24	H-Hydrochloric Acid S-Sulfuric Acid SB-Sodium Bisulfite ST-Sodium Thiosulfate	HN-Nitric Acid SH-Sodium Hydroxide P-Phosphoric Acid U-Unpreserved

LAB USE ONLY
Comments:
001
002
003

WO#: 30188594



30188594

Relinquished by: ²⁵	Date/Time: 6/29/16 0910
Received by: ²⁷	Date/Time: 6/29/16 0730
Relinquished by: ²⁵	Date/Time: 6/29/16 0800
Received by: ²⁷	Date/Time: 6/29/16 09:00

Joju Abraham
Jace 6/30/16 0940

Sample Condition Upon Receipt Pittsburgh



Client Name: GA Power

Project # 30188594

Courier: Fed Ex UPS USPS Client Commercial Pace Other _____

Tracking #: 6812 5097 4257 | 6812 5097 3938

Custody Seal on Cooler/Box Present: yes no Seals intact: yes no

Thermometer Used N/A Type of Ice: Wet Blue None

Cooler Temperature Observed Temp N/A °C Correction Factor: N/A °C Final Temp: N/A °C

Temp should be above freezing to 6°C

Date and Initials of person examining contents: RTB 7/1/16

Comments:

Yes	No	N/A
X		
X		
X		
X		
X		
X		
	X	
	X	
X		
X		
		X
X		
X		
		X
		X
		X

Chain of Custody Present:				1.
Chain of Custody Filled Out:				2.
Chain of Custody Relinquished:				3.
Sampler Name & Signature on COC:				4.
Sample Labels match COC:				5.
-Includes date/time/ID/Analysis Matrix: <u>WT</u>				
Samples Arrived within Hold Time:				6.
Short Hold Time Analysis (<72hr remaining):				7.
Rush Turn Around Time Requested:				8.
Sufficient Volume:				9.
Correct Containers Used:				10.
-Pace Containers Used:				
Containers Intact:				11.
Filtered volume received for Dissolved tests				12.
All containers needing preservation have been checked.				13.
All containers needing preservation are found to be in compliance with EPA recommendation.				
exceptions: VOA, coliform, TOC, O&G, Phenolics				
				Initial when completed <u>7/1/16</u> Date/time of preservation
				<u>RTB</u>
				Lot # of added preservative
Headspace in VOA Vials (>6mm):				14.
Trip Blank Present:				15.
Trip Blank Custody Seals Present				

Client Notification/ Resolution:

Person Contacted: _____ Date/Time: _____ Contacted By: _____

Comments/ Resolution: _____

Note: Whenever there is a discrepancy affecting North Carolina compliance samples, a copy of this form will be sent to the North Carolina DEHNR Certification Office (i.e. out of hold, incorrect preservative, out of temp, incorrect containers)

Quality Control Sample Performance Assessment



Analyst Must Manually Enter All Fields Highlighted in Yellow.

Test: Ra-228
Analyst: JLW
Date: 7/22/2016
Worklist: 30436
Matrix: DW

Method Blank Assessment

MB Sample ID: 1111749
MB concentration: 0.746
MB Counting Uncertainty: 0.339
MB MDC: 0.611
MB Numerical Performance Indicator: 4.32
MB Status vs Numerical Indicator: N/A
MB Status vs. MDC: See Comment*

Laboratory Control Sample Assessment

Count Date:	Count Date:	LCS (Y or N)?
7/28/2016	7/28/2016	LCS30436
Spike I.D.:	Spike I.D.:	16-025
Spike Concentration (pCi/mL):	Spike Concentration (pCi/mL):	26.085
Volume Used (mL):	Volume Used (mL):	0.20
Aliquot Volume (L, g, F):	Aliquot Volume (L, g, F):	0.804
Target Conc. (pCi/L, g, F):	Target Conc. (pCi/L, g, F):	6.490
Uncertainty (Calculated):	Uncertainty (Calculated):	0.467
Result (pCi/L, g, F):	Result (pCi/L, g, F):	7.884
LCS/LCSD Counting Uncertainty (pCi/L, g, F):	LCS/LCSD Counting Uncertainty (pCi/L, g, F):	3.900
Numerical Performance Indicator:	Numerical Performance Indicator:	0.70
Percent Recovery:	Percent Recovery:	121.48%
Status vs Numerical Indicator:	Status vs Numerical Indicator:	N/A
Status vs Recovery:	Status vs Recovery:	Pass

Duplicate Sample Assessment

Sample I.D.:	LCS30436
Duplicate Sample I.D.:	LCS30436
Sample Result (pCi/L, g, F):	7.884
Sample Result Counting Uncertainty (pCi/L, g, F):	3.900
Sample Duplicate Result (pCi/L, g, F):	4.893
Sample Duplicate Result Counting Uncertainty (pCi/L, g, F):	3.250
Are sample and/or duplicate results below MDC?*	NO
Duplicate Numerical Performance Indicator:	1.120
Duplicate RPD:	45.10%
Duplicate Status vs Numerical Indicator:	N/A
Duplicate Status vs RPD:	Fail**

Enter Duplicate sample IDs if other than LCS/LCSD in the space below.

Evaluation of duplicate precision is not applicable if either the sample or duplicate results are below the MDC.

Comments: *The method blank result is below the reporting limit for this analysis and is acceptable.

***Batch must be re-prepped due to unacceptable precision.

Handwritten signature and date: 8/18/16

* Numerical Indicator 'samples' is acceptable w/ samples.

Quality Control Sample Performance Assessment



Analyt Must Manually Enter All Fields Highlighted in Yellow.

Test: Ra-226
Analyst: JAL
Date: 7/27/2016
Worklist: 30499
Matrix: DW

Method Blank Assessment

MB Sample ID: 1112538
MB concentration: -0.038
MB Counting Uncertainty: 0.043
MB MDC: 0.181
MB Numerical Performance Indicator: -1.74
MB Status vs Numerical Indicator: N/A
MB Status vs MDC: Pass

Laboratory Control Sample Assessment

Count Date:	Y
LCS30499	LCS30499
7/31/2016	7/31/2016
16-001	16-001
47.784	47.784
0.10	0.10
0.507	0.515
8.430	9.273
0.444	0.436
7.744	7.165
0.560	0.555
-4.48	-5.98
82.12%	77.26%
N/A	N/A
Pass	Pass

LCS/LCSD Counting Uncertainty (pCi/L, g, F):
Numerical Performance Indicator:
Percent Recovery:
Status vs Numerical Indicator:
Status vs Recovery:

Duplicate Sample Assessment

Sample I.D.: LCS30499
Duplicate Sample I.D.: LCS30499
Sample Result (pCi/L, g, F): 7.744
Sample Result Counting Uncertainty (pCi/L, g, F): 0.590
Sample Duplicate Result (pCi/L, g, F): 7.165
Sample Duplicate Result Counting Uncertainty (pCi/L, g, F): 0.535
Are sample and/or duplicate results below MDC? NO
Duplicate Numerical Performance Indicator: 1.424
Duplicate RPD: 7.77%
Duplicate Status vs Numerical Indicator: N/A
Duplicate Status vs RPD: Pass

Enter Duplicate sample IDs if other than LCS/LCSD in the space below.

Sample Matrix Spike Control Assessment

Sample Collection Date:
Sample I.D.:
Sample MS I.D.:
Sample MSD I.D.:
Spike I.D.:
MS/MSD Decay Corrected Spike Concentration (pCi/mL):
Spike Volume Used in MS (mL):
Spike Volume Used in MSD (mL):
MS Aliquot (L, g, F):
MS Target Conc. (pCi/L, g, F):
MSD Aliquot (L, g, F):
MSD Target Conc. (pCi/L, g, F):
Spike uncertainty (calculated):
Sample Result:
Sample Result Counting Uncertainty (pCi/L, g, F):
Sample Matrix Spike Result:
Matrix Spike Result Counting Uncertainty (pCi/L, g, F):
Sample Matrix Spike Duplicate Result:
Sample Matrix Spike Duplicate Result Counting Uncertainty (pCi/L, g, F):
MS Numerical Performance Indicator:
MSD Numerical Performance Indicator:
MS Percent Recovery:
MSD Percent Recovery:
MS Status vs Numerical Indicator:
MSD Status vs Numerical Indicator:
MS Status vs Recovery:
MSD Status vs Recovery:

Matrix Spike/Matrix Spike Duplicate Sample Assessment

Sample I.D.:
Sample MS I.D.:
Sample MSD I.D.:
Sample Matrix Spike Result:
Matrix Spike Result Counting Uncertainty (pCi/L, g, F):
Sample Matrix Spike Duplicate Result:
Matrix Spike Duplicate Result Counting Uncertainty (pCi/L, g, F):
Duplicate Numerical Performance Indicator:
MS/MSD Duplicate RPD:
MS/MSD Duplicate Status vs Numerical Indicator:
MS/MSD Duplicate Status vs RPD:

Evaluation of duplicate precision is not applicable if either the sample or duplicate results are below the MDC.

Comments:

28/8/16

August 08, 2016

Maria Padilla
GA Power
2480 Maner Rd
Atlanta, GA 30339

RE: Project: Plant Scherer
Pace Project No.: 30188589

Dear Maria Padilla:

Enclosed are the analytical results for sample(s) received by the laboratory on July 01, 2016. The results relate only to the samples included in this report. Results reported herein conform to the most current TNI standards and the laboratory's Quality Assurance Manual, where applicable, unless otherwise noted in the body of the report.

If you have any questions concerning this report, please feel free to contact me.

Sincerely,



Jacquelyn Collins
jacquelyn.collins@pacelabs.com
Project Manager

Enclosures



REPORT OF LABORATORY ANALYSIS

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CERTIFICATIONS

Project: Plant Scherer

Pace Project No.: 30188589

Pennsylvania Certification IDs

1638 Roseytown Rd Suites 2,3&4, Greensburg, PA 15601

L-A-B DOD-ELAP Accreditation #: L2417

Alabama Certification #: 41590

Arizona Certification #: AZ0734

Arkansas Certification

California Certification #: 04222CA

Colorado Certification

Connecticut Certification #: PH-0694

Delaware Certification

Florida/TNI Certification #: E87683

Georgia Certification #: C040

Guam Certification

Hawaii Certification

Idaho Certification

Illinois Certification

Indiana Certification

Iowa Certification #: 391

Kansas/TNI Certification #: E-10358

Kentucky Certification #: 90133

Louisiana DHH/TNI Certification #: LA140008

Louisiana DEQ/TNI Certification #: 4086

Maine Certification #: PA00091

Maryland Certification #: 308

Massachusetts Certification #: M-PA1457

Michigan/PADEP Certification

Missouri Certification #: 235

Montana Certification #: Cert 0082

Nebraska Certification #: NE-05-29-14

Nevada Certification #: PA014572015-1

New Hampshire/TNI Certification #: 2976

New Jersey/TNI Certification #: PA 051

New Mexico Certification #: PA01457

New York/TNI Certification #: 10888

North Carolina Certification #: 42706

North Dakota Certification #: R-190

Oregon/TNI Certification #: PA200002

Pennsylvania/TNI Certification #: 65-00282

Puerto Rico Certification #: PA01457

Rhode Island Certification #: 65-00282

South Dakota Certification

Tennessee Certification #: TN2867

Texas/TNI Certification #: T104704188-14-8

Utah/TNI Certification #: PA014572015-5

USDA Soil Permit #: P330-14-00213

Vermont Dept. of Health: ID# VT-0282

Virgin Island/PADEP Certification

Virginia/VELAP Certification #: 460198

Washington Certification #: C868

West Virginia DEP Certification #: 143

West Virginia DHHR Certification #: 9964C

Wisconsin Certification

Wyoming Certification #: 8TMS-L

REPORT OF LABORATORY ANALYSIS

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SAMPLE SUMMARY

Project: Plant Scherer
Pace Project No.: 30188589

Lab ID	Sample ID	Matrix	Date Collected	Date Received
30188589001	SGWC-17	Water	06/29/16 08:26	07/01/16 10:15
30188589002	SGWC-21	Water	06/29/16 10:36	07/01/16 10:15
30188589003	SGWC-9	Water	06/29/16 13:45	07/01/16 10:15

REPORT OF LABORATORY ANALYSIS

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SAMPLE ANALYTE COUNT

Project: Plant Scherer
Pace Project No.: 30188589

Lab ID	Sample ID	Method	Analysts	Analytes Reported
30188589001	SGWC-17	EPA 9315	JAL	1
		EPA 9320	JLW	1
		Total Radium Calculation	RMK	1
30188589002	SGWC-21	EPA 9315	JAL	1
		EPA 9320	JLW	1
		Total Radium Calculation	RMK	1
30188589003	SGWC-9	EPA 9315	JAL	1
		EPA 9320	JLW	1
		Total Radium Calculation	RMK	1

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: Plant Scherer

Pace Project No.: 30188589

Parameters		Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
Radium-226		EPA 9315	-0.0313 ± 0.0498 (0.182) C:73% T:NA	pCi/L	07/31/16 07:16	13982-63-3	
Radium-228		EPA 9320	0.422 ± 0.323 (0.625) C:75% T:83%	pCi/L	08/08/16 12:03	15262-20-1	
Total Radium		Total Radium Calculation	0.391 ± 0.373 (0.807)	pCi/L	08/08/16 17:39	7440-14-4	

Parameters		Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
Radium-226		EPA 9315	-0.0440 ± 0.101 (0.297) C:63% T:NA	pCi/L	07/31/16 07:16	13982-63-3	
Radium-228		EPA 9320	0.297 ± 0.434 (0.935) C:75% T:81%	pCi/L	08/08/16 12:04	15262-20-1	
Total Radium		Total Radium Calculation	0.253 ± 0.535 (1.23)	pCi/L	08/08/16 17:39	7440-14-4	

Parameters		Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
Radium-226		EPA 9315	0.0282 ± 0.101 (0.252) C:57% T:NA	pCi/L	07/31/16 07:16	13982-63-3	
Radium-228		EPA 9320	0.637 ± 0.426 (0.813) C:76% T:83%	pCi/L	07/29/16 11:39	15262-20-1	
Total Radium		Total Radium Calculation	0.665 ± 0.527 (1.07)	pCi/L	08/08/16 17:22	7440-14-4	

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL - RADIOCHEMISTRY

Project: Plant Scherer

Pace Project No.: 30188589

QC Batch:	227094	Analysis Method:	EPA 9315
QC Batch Method:	EPA 9315	Analysis Description:	9315 Total Radium
Associated Lab Samples:	30188589001, 30188589002, 30188589003		

METHOD BLANK:	1112538	Matrix:	Water
Associated Lab Samples:	30188589001, 30188589002, 30188589003		

Parameter	Act ± Unc (MDC) Carr Trac	Units	Analyzed	Qualifiers
Radium-226	-0.0383 ± 0.0434 (0.181) C:69% T:NA	pCi/L	07/31/16 06:59	

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL - RADIOCHEMISTRY

Project: Plant Scherer

Pace Project No.: 30188589

QC Batch: 228621

Analysis Method: EPA 9320

QC Batch Method: EPA 9320

Analysis Description: 9320 Radium 228

Associated Lab Samples: 30188589001, 30188589002

METHOD BLANK: 1119865

Matrix: Water

Associated Lab Samples: 30188589001, 30188589002

Parameter	Act ± Unc (MDC) Carr Trac	Units	Analyzed	Qualifiers
Radium-228	0.599 ± 0.344 (0.624) C:74% T:94%	pCi/L	08/08/16 12:00	

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL - RADIOCHEMISTRY

Project: Plant Scherer

Pace Project No.: 30188589

QC Batch: 227033

Analysis Method: EPA 9320

QC Batch Method: EPA 9320

Analysis Description: 9320 Radium 228

Associated Lab Samples: 30188589003

METHOD BLANK: 1112335

Matrix: Water

Associated Lab Samples: 30188589003

Parameter	Act ± Unc (MDC) Carr Trac	Units	Analyzed	Qualifiers
Radium-228	0.351 ± 0.393 (0.824) C:73% T:79%	pCi/L	07/29/16 11:39	

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

REPORT OF LABORATORY ANALYSIS

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QUALIFIERS

Project: Plant Scherer

Pace Project No.: 30188589

DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to dilution of the sample aliquot.

ND - Not Detected at or above adjusted reporting limit.

J - Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit.

MDL - Adjusted Method Detection Limit.

PQL - Practical Quantitation Limit.

RL - Reporting Limit.

S - Surrogate

1,2-Diphenylhydrazine decomposes to and cannot be separated from Azobenzene using Method 8270. The result for each analyte is a combined concentration.

Consistent with EPA guidelines, unrounded data are displayed and have been used to calculate % recovery and RPD values.

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

U - Indicates the compound was analyzed for, but not detected.

N-Nitrosodiphenylamine decomposes and cannot be separated from Diphenylamine using Method 8270. The result reported for each analyte is a combined concentration.

Act - Activity

Unc - Uncertainty: SDWA = 1.96 sigma count uncertainty, all other matrices = Expanded Uncertainty (95% confidence interval).

Gamma Spec = Expanded Uncertainty (95.4% Confidence Interval)

(MDC) - Minimum Detectable Concentration

Trac - Tracer Recovery (%)

Carr - Carrier Recovery (%)

Pace Analytical is TNI accredited. Contact your Pace PM for the current list of accredited analytes.

TNI - The NELAC Institute.

REPORT OF LABORATORY ANALYSIS

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Georgia Power Environmental Laboratory
 NELAP Certification #E57554
 2480 Maner Road, BIN 39110
 Atlanta, Georgia 30339
 Phone: (404) 799-2100
 Company: 8-530-2100

**ANALYSIS REQUEST AND
 CHAIN OF CUSTODY RECORD**

**LAB
 USE
 ONLY**

Work Order No. _____

Reviewed By: _____

1st Page 1 of 1

Sample Shipment Date:⁸ 6/30/16

¹² Standard Turnaround Time

Sample Received Date:⁹ _____

Sampled By:¹⁰ Miranda Steffler
 # of Business Days (Rush) _____
 (Must be cleared through Env. Lab. Prior to shipment)

Company:¹ Southern Company Services
 Report To: Joju Abraham
 Address:² 241 Ralph McGill Blvd SE B10185
 Atlanta, GA 30308
 Phone/Fax:³ 404-506-7239
 Contact:⁴ Joju Abraham
 Project Location:⁵ Plant Scherer
 Account Number:⁶ _____
 Special: _____
 Instructions:⁷ Scherer AP COR GW

LAB USE ONLY LAB ID	Sample Number ¹⁴	Collection ¹⁵		Sample Description ¹⁶	Sample Type	No. of Containers	ANALYSIS REQUESTED ²¹			PRESERVATIVE ²⁰			Sample Type Key: 22
		Date	Time				Metals app. III & IV EPA 6020 & EPA 7470	Cl, F, SO4 EPA 300 TDS SM2540C	Radium 226/228 SW-846 9315 & 9320	HNO3 N	Ice I	HNO3 N	
	SBWC-17	6/29/16	0826		GW 3	3	X	X	X				
	SBWC-21	6/29/16	1036		GW 3	3	X	X	X				
	SBWC-9	6/29/16	1345		GW 3	3	X	X	X				

WO#: 30188589


Relinquished by:²⁶ CW Reynolds
 Received by:²⁷ _____
 Relinquished by:²⁶ _____
 Received by:²⁷ _____

Relinquished By: [Signature] 6-30-16
 [Signature] face 7/1/16 1015

Sample Condition Upon Receipt Pittsburgh



Client Name: GA Power

Project # 30188589

Courier: Fed Ex UPS USPS Client Commercial Pace Other _____

Tracking #: 6812 5097 4257 | 6812 5097 3938

Custody Seal on Cooler/Box Present: yes no Seals intact: yes no

Thermometer Used N/A Type of Ice: Wet Blue None

Cooler Temperature Observed Temp N/A °C Correction Factor: N/A °C Final Temp: N/A °C

Temp should be above freezing to 6°C

Date and Initials of person examining contents: RTB 7/1/16

Comments:

	Yes	No	N/A	
Chain of Custody Present:	X			1.
Chain of Custody Filled Out:	X			2.
Chain of Custody Relinquished:	X			3.
Sampler Name & Signature on COC:	X			4.
Sample Labels match COC:	X			5.
-Includes date/time/ID/Analysis Matrix: <u>WT</u>				
Samples Arrived within Hold Time:	X			6.
Short Hold Time Analysis (<72hr remaining):		X		7.
Rush Turn Around Time Requested:		X		8.
Sufficient Volume:	X			9.
Correct Containers Used:	X			10.
-Pace Containers Used:		X		
Containers Intact:	X			11.
Filtered volume received for Dissolved tests			X	12.
All containers needing preservation have been checked.	X			13. <u>pH < 2</u>
All containers needing preservation are found to be in compliance with EPA recommendation.	X			
exceptions: VOA, coliform, TOC, O&G, Phenolics				Initial when completed <u>7/1/16 RTB</u> Date/time of preservation
				Lot # of added preservative
Headspace in VOA Vials (>6mm):			X	14.
Trip Blank Present:			X	15.
Trip Blank Custody Seals Present			X	

Client Notification/ Resolution:

Person Contacted: _____ Date/Time: _____ Contacted By: _____

Comments/ Resolution: _____

Note: Whenever there is a discrepancy affecting North Carolina compliance samples, a copy of this form will be sent to the North Carolina DEHNR Certification Office (i.e. out of hold, incorrect preservative, out of temp, incorrect containers)

Quality Control Sample Performance Assessment



Analyst Must Manually Enter All Fields Highlighted in Yellow.

Test: Ra-226
Analyst: JAL
Date: 7/27/2016
Worklist: 30499
Matrix: DW

Method Blank Assessment

MB Sample ID: 1112538
MB Concentration: -0.038
MB Counting Uncertainty: 0.043
MB MDC: 0.181
MB Numerical Performance Indicator: -1.74
MB Status vs Numerical Indicator: N/A
MB Status vs. MDC: Pass

Laboratory Control Sample Assessment

Count Date:	Count	Y
7/31/2016	LCS030499	7/31/2016
16-001	16-001	47.784
0.10	0.10	0.515
0.507	0.507	9.273
9.430	9.430	0.436
0.444	0.444	7.165
7.744	7.744	0.535
0.590	0.590	-5.98
82.12%	82.12%	77.26%
N/A	N/A	N/A
<u>Pass</u>	<u>Pass</u>	<u>Pass</u>

LCS/LCSD Counting Uncertainty (pCi/L, g, F):
Numerical Performance Indicator:
Percent Recovery:
Status vs Numerical Indicator:
Status vs Recovery:

Duplicate Sample Assessment

Sample I.D.: LCS030499
Duplicate Sample I.D.: LCS030499
Sample Result Counting Uncertainty (pCi/L, g, F): 7.744
Sample Duplicate Result (pCi/L, g, F): 0.590
Sample Duplicate Result Counting Uncertainty (pCi/L, g, F): 7.165
Are sample and/or duplicate results below MDC? NO
Duplicate Numerical Performance Indicator: 1.424
Duplicate RPD: 7.77%
Duplicate Status vs Numerical Indicator: N/A
Duplicate Status vs RPD: Pass

Enter Duplicate sample IDs if other than LCS/LCSD in the space below.

Sample Matrix Spike Control Assessment

Sample Collection Date:
Sample I.D.:
Sample MS I.D.:
Sample MSD I.D.:
Spike I.D.:
MS/MSD Decay Corrected Spike Concentration (pCi/mL):
Spike Volume Used in MS (mL):
Spike Volume Used in MSD (mL):
MS Aliquot (L, g, F):
MS Target Conc. (pCi/L, g, F):
MSD Aliquot (L, g, F):
MSD Target Conc. (pCi/L, g, F):
Spike uncertainty (calculated):
Sample Result:
Sample Result Counting Uncertainty (pCi/L, g, F):
Sample Matrix Spike Result:
Sample Matrix Spike Duplicate Result:
Matrix Spike Duplicate Result Counting Uncertainty (pCi/L, g, F):
MS Numerical Performance Indicator:
MSD Numerical Performance Indicator:
MS Percent Recovery:
MSD Percent Recovery:
MS Status vs Numerical Indicator:
MSD Status vs Numerical Indicator:
MS Status vs Recovery:
MSD Status vs Recovery:

Matrix Spike/Matrix Spike Duplicate Sample Assessment

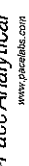
Sample I.D.:
Sample MS I.D.:
Sample MSD I.D.:
Sample Matrix Spike Result:
Matrix Spike Result Counting Uncertainty (pCi/L, g, F):
Sample Matrix Spike Duplicate Result:
Matrix Spike Duplicate Result Counting Uncertainty (pCi/L, g, F):
Duplicate Numerical Performance Indicator:
MS/MSD Duplicate RPD:
MS/MSD Duplicate Status vs Numerical Indicator:
MS/MSD Duplicate Status vs RPD:

Evaluation of duplicate precision is not applicable if either the sample or duplicate results are below the MDC.

Comments:

28/8/16

Quality Control Sample Performance Assessment



Test: Ra-228
Analyst: JLW
Date: 7/26/2016
Worklist: 30471
Matrix: DW

Analyst Must Manually Enter All Fields Highlighted in Yellow.

Method Blank Assessment

MB Sample ID: 1112335
MB concentration: 0.351
MB Counting Uncertainty: 0.388
MB MDC: 0.824
MB Numerical Performance Indicator: 1.77
MB Status vs Numerical Indicator: N/A
MB Status vs MDC: Pass

Laboratory Control Sample Assessment

Count Date:	Y
7/29/2016	LCS30471
16-025	7/29/2016
26.077	26.077
0.20	0.20
0.805	0.805
6.476	6.476
0.466	0.466
6.743	6.743
0.776	0.776
0.58	0.58
104.12%	104.12%
N/A	N/A
Pass	Pass

LCS/LCSD Counting Uncertainty (pCi/L, g, F): 0.707
Numerical Performance Indicator: -5.10
Percent Recovery: 65.97%
Status vs Numerical Indicator: N/A
Status vs Recovery: Pass

Duplicate Sample Assessment

Sample I.D.: LCS30471
Duplicate Sample I.D.: LCS30471
Sample Result Counting Uncertainty (pCi/L, g, F): 4.275
Sample Duplicate Result Counting Uncertainty (pCi/L, g, F): 0.707
Sample Duplicate Result Counting Uncertainty (pCi/L, g, F): 6.743
Sample Duplicate Result Counting Uncertainty (pCi/L, g, F): 0.776
Are sample and/or duplicate results below MDC? NO
Duplicate Numerical Performance Indicator: -4.608
Duplicate RPD: 44.79%
Duplicate Status vs Numerical Indicator: N/A
Duplicate Status vs RPD: Fail***

Enter Duplicate sample IDs if other than LCS/LCSD in the space below.

Sample Matrix Spike Control Assessment

Sample Collection Date:
Sample I.D.:
Sample MS I.D.:
Sample MSD I.D.:
Spike I.D.:
MS/MSD Decay Corrected Spike Concentration (pCi/mL):
Spike Volume Used in MS (mL):
MS Aliquot (L, g, F):
MS Target Conc. (pCi/L, g, F):
MSD Aliquot (L, g, F):
MSD Target Conc. (pCi/L, g, F):
Spike uncertainty (calculated):
Sample Result Counting Uncertainty (pCi/L, g, F):
Sample Matrix Spike Result:
Matrix Spike Result Counting Uncertainty (pCi/L, g, F):
Sample Matrix Spike Duplicate Result:
Matrix Spike Duplicate Result Counting Uncertainty (pCi/L, g, F):
MS Numerical Performance Indicator:
MSD Numerical Performance Indicator:
MS Percent Recovery:
MSD Percent Recovery:
MS Status vs Numerical Indicator:
MSD Status vs Numerical Indicator:
MS Status vs Recovery:
MSD Status vs Recovery:

Matrix Spike/Matrix Spike Duplicate Sample Assessment

Sample I.D.:
Sample MS I.D.:
Sample MSD I.D.:
Sample Matrix Spike Result:
Sample Matrix Spike Duplicate Result:
Sample Matrix Spike Counting Uncertainty (pCi/L, g, F):
Sample Matrix Spike Duplicate Counting Uncertainty (pCi/L, g, F):
Duplicate Numerical Performance Indicator:
MS/MSD Duplicate RPD:
MS/MSD Duplicate Status vs Numerical Indicator:
MS/MSD Duplicate Status vs RPD:

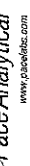
Evaluation of duplicate precision is not applicable if either the sample or duplicate results are below the MDC.

Comments:

28/8/16

***Batch must be re-prepped due to unacceptable precision.

Quality Control Sample Performance Assessment



Test: Ra-228
Analyst: JLW
Date: 8/1/2016
Worklist: 30471
Matrix: DW

Analyst Must Manually Enter All Fields Highlighted in Yellow.

Method Blank Assessment

MB Sample ID
MB concentration:
M/B Counting Uncertainty:
MB MDC:
MB Numerical Performance Indicator:
MB Status vs Numerical Indicator:
MB Status vs. MDC:

Laboratory Control Sample Assessment

Count Date:	LCS(Y or N)?	Y
8/3/2016	LCS30471	8/3/2016
Spike I.D.:	16-025	16-025
Spike Concentration (pCi/mL):	26.033	26.033
Volume Used (mL):	0.20	0.20
Aliquot Volume (L, g, F):	0.805	0.805
Target Conc. (pCi/L, g, F):	6.469	6.465
Uncertainty (Calculated):	0.466	0.465
Result (pCi/L, g, F):	7.541	7.938
LCS/LCSD Counting Uncertainty (pCi/L, g, F):	0.949	0.838
Numerical Performance Indicator:	1.99	3.01
Percent Recovery:	116.57%	122.75%
Status vs Numerical Indicator:	N/A	N/A
Status vs Recovery:	Pass	Pass

Duplicate Sample Assessment

Sample I.D.: LCS30471
Duplicate Sample I.D.: LCS30471
Sample Result Counting Uncertainty (pCi/L, g, F): 7.541
Sample Duplicate Result Counting Uncertainty (pCi/L, g, F): 0.949
Sample Duplicate Result Counting Uncertainty (pCi/L, g, F): 7.938
Are sample and/or duplicate results below MDC? NO
Duplicate Numerical Performance Indicator: -0.612
Duplicate RPD: 5.11%
Duplicate Status vs Numerical Indicator: N/A
Duplicate Status vs RPD: Pass

Sample Matrix Spike Control Assessment

Sample Collection Date:
Sample I.D.:
Sample MS I.D.:
Sample MSD I.D.:
Spike I.D.:
MS/MSD Decay Corrected Spike Concentration (pCi/mL):
Spike Volume Used in MS (mL):
Spike Volume Used in MSD (mL):
MS Aliquot (L, g, F):
MS Target Conc. (pCi/L, g, F):
MSD Aliquot (L, g, F):
MSD Target Conc. (pCi/L, g, F):
Spike uncertainty (calculated):
Sample Result
Sample Result Counting Uncertainty (pCi/L, g, F):
Sample Matrix Spike Result:
Matrix Spike Result Counting Uncertainty (pCi/L, g, F):
Sample Matrix Spike Duplicate Result:
Matrix Spike Duplicate Result Counting Uncertainty (pCi/L, g, F):
MS Numerical Performance Indicator:
MSD Numerical Performance Indicator:
MS Percent Recovery:
MSD Percent Recovery:
MS Status vs Numerical Indicator:
MSD Status vs Numerical Indicator:
MS Status vs Recovery:
MSD Status vs Recovery:

Matrix Spiker/Matrix Spike Duplicate Sample Assessment

Sample I.D.:
Sample MS I.D.:
Sample MSD I.D.:
Sample Matrix Spike Result:
Matrix Spike Result Counting Uncertainty (pCi/L, g, F):
Sample Matrix Spike Duplicate Result:
Matrix Spike Duplicate Result Counting Uncertainty (pCi/L, g, F):
Duplicate Numerical Performance Indicator:
MS/MSD Duplicate RPD:
MS/MSD Duplicate Status vs Numerical Indicator:
MS/MSD Duplicate Status vs RPD:

Evaluation of duplicate precision is not applicable if either the sample or duplicate results are below the MDC.

Comments:

DL 8/8/16

Quality Control Sample Performance Assessment



Analyst Must Manually Enter All Fields Highlighted in Yellow.

Test: Ra-228
Analyst: JLW
Date: 7/22/2016
Worklist: 30436
Matrix: DW

Method Blank Assessment

MB Sample ID: 1111749
MB Concentration: 0.746
M/B Counting Uncertainty: 0.339
MB MDC: 0.611
MB Numerical Performance Indicator: 4.32
MB Status vs Numerical Indicator: N/A
MB Status vs. MDC: See Comment

Laboratory Control Sample Assessment

LCSD (Y or N)?	Count Date:	Count Rate:
Y	7/28/2016	LCS30436
	16-025	7/28/2016
	26.085	16-025
	0.20	26.085
	0.800	0.20
	6.518	0.800
	4.983	6.490
	0.469	0.467
	7.884	7.884
	3.250	3.900
	-0.92	0.70
	N/A	121.48%
	N/A	Pass
	Pass	Pass

LCSD (Y or N)?

Count Date:

Count Rate:

Spike Concentration (pCi/mL):

Volume Used (mL):

Aliquot Volume (L, g, F):

Target Conc. (pCi/L, g, F):

Uncertainty (Calculated):

Result (pCi/L, g, F):

LCSD/LCSD Counting Uncertainty (pCi/L, g, F):

Numerical Performance Indicator:

Percent Recovery:

Status vs Numerical Indicator:

Status vs Recovery:

Duplicate Sample Assessment

Sample I.D.: LCS30436
Duplicate Sample I.D.: LCS30436
Sample Result Counting Uncertainty (pCi/L, g, F): 7.884
Sample Duplicate Result Counting Uncertainty (pCi/L, g, F): 3.900
Sample Duplicate Result Counting Uncertainty (pCi/L, g, F): 4.983
Are sample and/or duplicate results below MDC? NO
Duplicate Numerical Performance Indicator: 1.120
Duplicate RPD: 45.10%
Duplicate Status vs Numerical Indicator: N/A
Duplicate Status vs RPD: Fail**

Enter Duplicate sample IDs if other than LCS/LCSD in the space below.

Sample Matrix Spike Control Assessment

Sample Collection Date:

Sample I.D.:

Sample MS I.D.:

Spike I.D.:

MS/MSD Decay Corrected Spike Concentration (pCi/mL):

Spike Volume Used in MSD (mL):

MS Aliquot (L, g, F):

MS Target Conc. (pCi/L, g, F):

MSD Aliquot (L, g, F):

MSD Target Conc. (pCi/L, g, F):

Spike uncertainty (calculated):

Sample Result Counting Uncertainty (pCi/L, g, F):

Sample Matrix Spike Result:

Matrix Spike Result Counting Uncertainty (pCi/L, g, F):

Sample Matrix Spike Duplicate Result:

Matrix Spike Duplicate Result Counting Uncertainty (pCi/L, g, F):

MS Numerical Performance Indicator:

MSD Numerical Performance Indicator:

MS Percent Recovery:

MSD Percent Recovery:

MS Status vs Numerical Indicator:

MSD Status vs Numerical Indicator:

MS Status vs Recovery:

MSD Status vs Recovery:

Matrix Spike/Matrix Spike Duplicate Sample Assessment

Sample I.D.:

Sample MS I.D.:

Spike I.D.:

Matrix Spike Result Counting Uncertainty (pCi/L, g, F):

Sample Matrix Spike Result:

Sample Matrix Spike Duplicate Result:

Matrix Spike Duplicate Result Counting Uncertainty (pCi/L, g, F):

Duplicate Numerical Performance Indicator:

MS/MSD Duplicate RPD:

MS/MSD Duplicate Status vs Numerical Indicator:

MS/MSD Duplicate Status vs RPD:

Comments:

*The method blank result is below the reporting limit for this analysis and is acceptable.

**Batch must be re-prepped due to unacceptable precision.

Q 8/18/16

** Numerical Indicator 'samples' is accepted w/ samples.*

August 08, 2016

Maria Padilla
GA Power
2480 Maner Rd
Atlanta, GA 30339

RE: Project: Plant Scherer
Pace Project No.: 30188688

Dear Maria Padilla:

Enclosed are the analytical results for sample(s) received by the laboratory on July 05, 2016. The results relate only to the samples included in this report. Results reported herein conform to the most current TNI standards and the laboratory's Quality Assurance Manual, where applicable, unless otherwise noted in the body of the report.

If you have any questions concerning this report, please feel free to contact me.

Sincerely,



Jacquelyn Collins
jacquelyn.collins@pacelabs.com
Project Manager

Enclosures



REPORT OF LABORATORY ANALYSIS

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CERTIFICATIONS

Project: Plant Scherer
Pace Project No.: 30188688

Pennsylvania Certification IDs

1638 Roseytown Rd Suites 2,3&4, Greensburg, PA 15601
L-A-B DOD-ELAP Accreditation #: L2417
Alabama Certification #: 41590
Arizona Certification #: AZ0734
Arkansas Certification
California Certification #: 04222CA
Colorado Certification
Connecticut Certification #: PH-0694
Delaware Certification
Florida/TNI Certification #: E87683
Georgia Certification #: C040
Guam Certification
Hawaii Certification
Idaho Certification
Illinois Certification
Indiana Certification
Iowa Certification #: 391
Kansas/TNI Certification #: E-10358
Kentucky Certification #: 90133
Louisiana DHH/TNI Certification #: LA140008
Louisiana DEQ/TNI Certification #: 4086
Maine Certification #: PA00091
Maryland Certification #: 308
Massachusetts Certification #: M-PA1457
Michigan/PADEP Certification
Missouri Certification #: 235

Montana Certification #: Cert 0082
Nebraska Certification #: NE-05-29-14
Nevada Certification #: PA014572015-1
New Hampshire/TNI Certification #: 2976
New Jersey/TNI Certification #: PA 051
New Mexico Certification #: PA01457
New York/TNI Certification #: 10888
North Carolina Certification #: 42706
North Dakota Certification #: R-190
Oregon/TNI Certification #: PA200002
Pennsylvania/TNI Certification #: 65-00282
Puerto Rico Certification #: PA01457
Rhode Island Certification #: 65-00282
South Dakota Certification
Tennessee Certification #: TN2867
Texas/TNI Certification #: T104704188-14-8
Utah/TNI Certification #: PA014572015-5
USDA Soil Permit #: P330-14-00213
Vermont Dept. of Health: ID# VT-0282
Virgin Island/PADEP Certification
Virginia/VELAP Certification #: 460198
Washington Certification #: C868
West Virginia DEP Certification #: 143
West Virginia DHHR Certification #: 9964C
Wisconsin Certification
Wyoming Certification #: 8TMS-L

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SAMPLE SUMMARY

Project: Plant Scherer

Pace Project No.: 30188688

Lab ID	Sample ID	Matrix	Date Collected	Date Received
30188688001	SGWC-18	Water	06/30/16 10:13	07/05/16 10:00
30188688002	FB-7	Water	06/30/16 10:40	07/05/16 10:00

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SAMPLE ANALYTE COUNT

Project: Plant Scherer

Pace Project No.: 30188688

Lab ID	Sample ID	Method	Analysts	Analytes Reported
30188688001	SGWC-18	EPA 9315	JAL	1
		EPA 9320	JLW	1
		Total Radium Calculation	CMC	1
30188688002	FB-7	EPA 9315	JAL	1
		EPA 9320	JLW	1
		Total Radium Calculation	CMC	1

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: Plant Scherer

Pace Project No.: 30188688

Sample: SGWC-18 **Lab ID: 30188688001** Collected: 06/30/16 10:13 Received: 07/05/16 10:00 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
Radium-226	EPA 9315	-0.0417 ± 0.0707 (0.244) C:97% T:NA	pCi/L	08/08/16 06:46	13982-63-3	
Radium-228	EPA 9320	0.635 ± 0.470 (0.921) C:73% T:75%	pCi/L	07/29/16 15:38	15262-20-1	
Total Radium	Total Radium Calculation	0.593 ± 1.18 (1.17)	pCi/L	08/08/16 14:00	7440-14-4	

Sample: FB-7 **Lab ID: 30188688002** Collected: 06/30/16 10:40 Received: 07/05/16 10:00 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
Radium-226	EPA 9315	-0.00682 ± 0.0879 (0.253) C:93% T:NA	pCi/L	08/08/16 06:46	13982-63-3	
Radium-228	EPA 9320	0.0234 ± 0.377 (0.869) C:72% T:85%	pCi/L	07/29/16 15:38	15262-20-1	
Total Radium	Total Radium Calculation	0.0166 ± 0.465 (1.12)	pCi/L	08/08/16 14:00	7440-14-4	

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL - RADIOCHEMISTRY

Project: Plant Scherer

Pace Project No.: 30188688

QC Batch: 228461

Analysis Method: EPA 9315

QC Batch Method: EPA 9315

Analysis Description: 9315 Total Radium

Associated Lab Samples: 30188688001, 30188688002

METHOD BLANK: 1119234

Matrix: Water

Associated Lab Samples: 30188688001, 30188688002

Parameter	Act ± Unc (MDC) Carr Trac	Units	Analyzed	Qualifiers
Radium-226	0.104 ± 0.103 (0.181) C:95% T:NA	pCi/L	08/08/16 06:45	

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL - RADIOCHEMISTRY

Project: Plant Scherer

Pace Project No.: 30188688

QC Batch: 227033

Analysis Method: EPA 9320

QC Batch Method: EPA 9320

Analysis Description: 9320 Radium 228

Associated Lab Samples: 30188688001, 30188688002

METHOD BLANK: 1112335

Matrix: Water

Associated Lab Samples: 30188688001, 30188688002

Parameter	Act ± Unc (MDC) Carr Trac	Units	Analyzed	Qualifiers
Radium-228	0.351 ± 0.393 (0.824) C:73% T:79%	pCi/L	07/29/16 11:39	

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

REPORT OF LABORATORY ANALYSIS

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QUALIFIERS

Project: Plant Scherer

Pace Project No.: 30188688

DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to dilution of the sample aliquot.

ND - Not Detected at or above adjusted reporting limit.

J - Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit.

MDL - Adjusted Method Detection Limit.

PQL - Practical Quantitation Limit.

RL - Reporting Limit.

S - Surrogate

1,2-Diphenylhydrazine decomposes to and cannot be separated from Azobenzene using Method 8270. The result for each analyte is a combined concentration.

Consistent with EPA guidelines, unrounded data are displayed and have been used to calculate % recovery and RPD values.

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

U - Indicates the compound was analyzed for, but not detected.

N-Nitrosodiphenylamine decomposes and cannot be separated from Diphenylamine using Method 8270. The result reported for each analyte is a combined concentration.

Act - Activity

Unc - Uncertainty: SDWA = 1.96 sigma count uncertainty, all other matrices = Expanded Uncertainty (95% confidence interval).

Gamma Spec = Expanded Uncertainty (95.4% Confidence Interval)

(MDC) - Minimum Detectable Concentration

Trac - Tracer Recovery (%)

Carr - Carrier Recovery (%)

Pace Analytical is TNI accredited. Contact your Pace PM for the current list of accredited analytes.

TNI - The NELAC Institute.

REPORT OF LABORATORY ANALYSIS

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WO#: 30188688



ANALYSIS REQUEST AND CHAIN OF CUSTODY RECORD

Georgia Power Environmental Laboratory

NELAP Certification #E57554
2480 Maner Road, BIN 39110
Atlanta, Georgia 30339
Phone: (404) 799-2100
Company: 8-530-2100

LA USE ONLY

Reviewed By:

Page 1 of 1

Sample Shipment Date:⁸ 6/30/16

Sample Received Date:⁹

Sampled By:¹⁰ Charles Watson

X

Standard Turnaround Time

of Business Days (Rush)
(Must be cleared through Env. Lab. Prior to shipment)

Company:¹ Southern Company Services
Report To: Jojo Abraham
Address:² 241 Ralph McGill Blvd SE B10185
Atlanta, GA 30308
Phone/Fax:³ 404-506-7239
Contact:⁴ Jojo Abraham
Project Location:⁵ Plant Scherer
Account Number:⁶
Special Instructions:⁷ Scherer AP CCR GW

LAB USE ONLY LAB ID	Sample Number ¹⁴	Collection ¹⁵		Sample Description ¹⁶	Sample Type ¹⁷	Matrix ¹⁸	No. of Containers ¹⁹	PRESERVATIVE ²⁰			ANALYSIS REQUESTED ²¹	Sample Type Key: ²² G-Grab O-Other C-Composite M-Matrix Key: ²³ O-Oil S-Solid SL-Sludge W-Wipe SW-Surface Water GW-Ground Water WW-Waste Water DW-Drinking Water Preservative Key: ²⁴ H-Hydrochloric Acid NH-Nitric Acid S-Sulfuric Acid SH-Sodium Hydroxide SP-Sodium Bisulfite P-Phosphoric Acid ST-Sodium Thiosulfate I-Ice LU-Unpreserved	
		Date	Time					HNO3 N	Ice I	HNO3 N			
	SGWC-18	6/30/16	1013		G-GW		3				X	EPA 6020 & EPA 7470 Metals app. III & IV	
	FB-7	6/30/16	1040	Field Blank	G-DW		3				X	CI, F, SO4 EPA 300 TDS SM2540C Radium 226/228 SW-846 9315 & 9320	

LAB USE ONLY: Sample Receipt Information ²⁵			
Relinquished by: ²⁶	Date/Time	Relinquished by: ²⁷	Date/Time
Charles Watson	6/30/16 14:18	Charles Watson	6/30/16 14:20
Robert E. Hill	7/15/16 1000		

Sample Condition Upon Receipt Pittsburgh

30188688



Client Name: Georgia Power Project # _____

Courier: Fed Ex UPS USPS Client Commercial Pace Other _____

Tracking #: 6812 5097 4533

Custody Seal on Cooler/Box Present: yes no Seals intact: yes no

Thermometer Used N/A Type of Ice: Wet Blue None

Cooler Temperature Observed Temp N/A °C Correction Factor: N/A °C Final Temp: N/A °C

Temp should be above freezing to 6°C

Date and Initials of person examining contents: 7/5/16

Comments:	Yes	No	N/A	
Chain of Custody Present:	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	1.
Chain of Custody Filled Out:	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	2.
Chain of Custody Relinquished:	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	3.
Sampler Name & Signature on COC:	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	4.
Sample Labels match COC: -Includes date/time/ID/Analysis Matrix: <u>wt</u>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	5.
Samples Arrived within Hold Time:	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	6.
Short Hold Time Analysis (<72hr remaining):	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	7.
Rush Turn Around Time Requested:	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	8.
Sufficient Volume:	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	9.
Correct Containers Used:	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	10.
-Pace Containers Used:	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
Containers Intact:	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	11.
Filtered volume received for Dissolved tests	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	12.
All containers needing preservation have been checked.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	13.
All containers needing preservation are found to be in compliance with EPA recommendation.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
exceptions: VOA, coliform, TOC, O&G, Phenolics				Initial when completed: <u>KH</u> Date/time of preservation: _____
				Lot # of added preservative: _____
Headspace in VOA Vials (>6mm):	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	14.
Trip Blank Present:	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	15.
Trip Blank Custody Seals Present	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	

Client Notification/ Resolution:

Person Contacted: _____ Date/Time: _____ Contacted By: _____

Comments/ Resolution: _____

Note: Whenever there is a discrepancy affecting North Carolina compliance samples, a copy of this form will be sent to the North Carolina DEHNR Certification Office (i.e. out of hold, incorrect preservative, out of temp, incorrect containers)

Quality Control Sample Performance Assessment

Analyst Must Manually Enter All Fields Highlighted in Yellow.

Test: Ra-226
Analyst: JAL
Date: 8/5/2016
Worklist: 30675
Matrix: DW



Method Blank Assessment

MB Sample ID: 1119234
MB Concentration: 0.104
M/B Counting Uncertainty: 0.102
MB MDC: 0.181
MB Numerical Performance Indicator: 2.01
MB Status vs Numerical Indicator: **N/A**
MB Status vs. MDC: **Pass**

Laboratory Control Sample Assessment

LCS#	(Y or N)?	Count Date:	Y
LCS30675		8/8/2016	LCS30675
16-026		44.679	16-026
0.10		0.505	0.10
8.841		8.760	8.841
0.416		6.887	0.416
0.660		0.713	0.660
-5.41		-2.11	-5.41
75.63%		89.86%	75.63%
N/A		N/A	N/A
Pass		Pass	Pass

Duplicate Sample Assessment

Sample I.D.: LCS30675
Duplicate Sample I.D.: LCS30675
Sample Result Counting Uncertainty (pCi/L, g, F): 6.687
Sample Duplicate Result Counting Uncertainty (pCi/L, g, F): 0.660
Sample Duplicate Result Counting Uncertainty (pCi/L, g, F): 7.872
Sample Duplicate Result Counting Uncertainty (pCi/L, g, F): 0.713
Are sample and/or duplicate results below MDC? NO
Duplicate Numerical Performance Indicator: -2.391
Duplicate Status vs Numerical Indicator: 16.28%
Duplicate Status vs RPD: **N/A**
Duplicate Status vs RPD: **Pass**

Evaluation of duplicate precision is not applicable if either the sample or duplicate results are below the MDC.

Comments:

Sample Matrix Spike Control Assessment

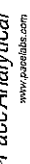
Sample Collection Date:
Sample I.D.:
Sample MS I.D.:
Sample MSD I.D.:
Spike I.D.:
MS/MSD Decay Corrected Spike Concentration (pCi/mL):
Spike Volume Used in MS (mL):
Spike Volume Used in MSD (mL):
MS Aliquot (L, g, F):
MS Target Conc. (pCi/L, g, F):
MSD Aliquot (L, g, F):
MSD Target Conc. (pCi/L, g, F):
Spike uncertainty (calculated):
Sample Result:
Sample Result Counting Uncertainty (pCi/L, g, F):
Sample Matrix Spike Result:
Matrix Spike Result Counting Uncertainty (pCi/L, g, F):
Sample Matrix Spike Duplicate Result:
Matrix Spike Duplicate Result Counting Uncertainty (pCi/L, g, F):
MS Numerical Performance Indicator:
MS Percent Recovery:
MSD Percent Recovery:
MS Status vs Numerical Indicator:
MSD Status vs Numerical Indicator:
MS Status vs Recovery:
MSD Status vs Recovery:

Matrix Spike/Matrix Spike Duplicate Sample Assessment

Sample I.D.:
Sample MS I.D.:
Sample MSD I.D.:
Sample Matrix Spike Result:
Matrix Spike Result Counting Uncertainty (pCi/L, g, F):
Sample Matrix Spike Duplicate Result:
Matrix Spike Duplicate Result Counting Uncertainty (pCi/L, g, F):
Duplicate Numerical Performance Indicator:
MS/MSD Duplicate RPD:
MS/MSD Duplicate Status vs Numerical Indicator:
MS/MSD Duplicate Status vs RPD:

28/8/16

Quality Control Sample Performance Assessment



www.faceanalytical.com

Analyst Must Manually Enter All Fields Highlighted in Yellow.

Test: Ra-228
Analyst: JLW
Date: 7/26/2016
Worklist: 30471
Matrix: DW

Method Blank Assessment	
MB Sample ID	1112335
MB concentration:	0.351
MB Counting Uncertainty:	0.388
MB MDC:	0.824
MB Numerical Performance Indicator:	1.77
MB Status vs Numerical Indicator:	N/A
MB Status vs. MDC:	Pass

Laboratory Control Sample Assessment	
Count Date:	7/29/2016
Spike I.D.:	16-025
Spike Concentration (pCi/mL):	26.077
Volume Used (mL):	0.20
Aliquot Volume (L, g, F):	0.805
Target Conc. (pCi/L, g, F):	6.480
Uncertainty (Calculated):	0.467
Result (pCi/L, g, F):	4.275
LCS/LCSD Counting Uncertainty (pCi/L, g, F):	0.707
Numerical Performance Indicator:	-5.10
Percent Recovery:	65.97%
Status vs Numerical Indicator:	N/A
Status vs Recovery:	Pass

Duplicate Sample Assessment	
Sample I.D.:	LCS30471
Duplicate Sample I.D.:	LCS30471
Sample Result (pCi/L, g, F):	4.275
Sample Duplicate Result (pCi/L, g, F):	0.707
Sample Duplicate Result Counting Uncertainty (pCi/L, g, F):	6.743
Sample Duplicate Result Counting Uncertainty (pCi/L, g, F):	0.776
Are sample and/or duplicate results below MDC?	NO
Duplicate Numerical Performance Indicator:	-4.608
Duplicate RPD:	44.79%
Duplicate Status vs Numerical Indicator:	N/A
Duplicate Status vs RPD:	Fail***

Enter Duplicate sample IDs if other than LCS/LCSD in the space below:

*** Evaluation of duplicate precision is not applicable if either the sample or duplicate results are below the MDC.

Comments:

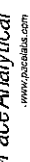
***Batch must be re-prepped due to unacceptable precision.

Sample Matrix Spike Control Assessment	
Sample Collection Date:	Sample I.D.
Sample MS I.D.:	Sample MS I.D.
Sample MSD I.D.:	Sample MSD I.D.
Spike I.D.:	Spike I.D.:
MS/MSD Decay Corrected Spike Concentration (pCi/mL):	Spike Volume Used in MS (mL):
Spike Volume Used in MSD (mL):	MS Target Conc. (pCi/L, g, F):
MS Aliquot (L, g, F):	MSD Aliquot (L, g, F):
MS Target Conc. (pCi/L, g, F):	MSD Target Conc. (pCi/L, g, F):
Spike uncertainty (calculated):	Spike uncertainty (calculated):
Sample Result:	Sample Result:
Sample Result Counting Uncertainty (pCi/L, g, F):	Sample Matrix Spike Result:
Sample Matrix Spike Result Counting Uncertainty (pCi/L, g, F):	Sample Matrix Spike Duplicate Result:
Sample Matrix Spike Duplicate Result Counting Uncertainty (pCi/L, g, F):	MS Numerical Performance Indicator:
MS Numerical Performance Indicator:	MSD Numerical Performance Indicator:
MS Percent Recovery:	MS Percent Recovery:
MSD Percent Recovery:	MS Status vs Numerical Indicator:
MS Status vs Numerical Indicator:	MSD Status vs Numerical Indicator:
MS Status vs Recovery:	MS Status vs Recovery:
MSD Status vs Recovery:	MSD Status vs Recovery:

Matrix Spike/Matrix Spike Duplicate Sample Assessment	
Sample I.D.:	Sample I.D.
Sample MS I.D.:	Sample MS I.D.
Sample MSD I.D.:	Sample MSD I.D.
Sample Matrix Spike Result:	Sample Matrix Spike Duplicate Result:
Sample Matrix Spike Result Counting Uncertainty (pCi/L, g, F):	Sample Matrix Spike Duplicate Result Counting Uncertainty (pCi/L, g, F):
Sample Matrix Spike Duplicate Result Counting Uncertainty (pCi/L, g, F):	Duplicate Numerical Performance Indicator:
Duplicate Numerical Performance Indicator:	MS/MSD Duplicate RPD:
MS/MSD Duplicate Status vs Numerical Indicator:	MS/MSD Duplicate Status vs Numerical Indicator:
MS/MSD Duplicate Status vs RPD:	MS/MSD Duplicate Status vs RPD:

Handwritten signature: JLW 8/18/16

Quality Control Sample Performance Assessment



www.faceanalytical.com

Analyst Must Manually Enter All Fields Highlighted in Yellow.

Test: Ra-228
Analyst: JLW
Date: 8/1/2016
Worklist: 30471
Matrix: DW

Method Blank Assessment

MB Sample ID
MB concentration:
MB Counting Uncertainty:
MB MDC:
MB Numerical Performance Indicator:
MB Status vs. Numerical Indicator:
MB Status vs. MDC:

Laboratory Control Sample Assessment

	LCS (Y or N)?	Y
Count Date:	LCS30471	8/3/2016
Spike I.D.:	16-025	16-025
Spike Concentration (pCi/mL):	26.033	26.033
Volume Used (mL):	0.20	0.20
Aliquot Volume (L, g, F):	0.805	0.805
Target Conc. (pCi/L, g, F):	6.469	6.465
Uncertainty (Calculated):	0.466	0.465
Result (pCi/L, g, F):	7.541	7.936
LCS/LCSD Counting Uncertainty (pCi/L, g, F):	0.949	0.838
Numerical Performance Indicator:	1.99	3.01
Percent Recovery:	116.57%	122.75%
Status vs Numerical Indicator:	N/A	N/A
Status vs Recovery:	Pass	Pass

Duplicate Sample Assessment

Sample I.D.: LCS30471
Duplicate Sample I.D.: LCS30471
Sample Result Counting Uncertainty (pCi/L, g, F): 7.541
Sample Duplicate Result Counting Uncertainty (pCi/L, g, F): 0.949
Sample Duplicate Result Counting Uncertainty (pCi/L, g, F): 7.936
Are sample and/or duplicate results below MDC? NO
Duplicate Numerical Performance Indicator: -0.612
Duplicate RPD: 5.11%
Duplicate Status vs Numerical Indicator: N/A
Duplicate Status vs RPD: Pass

Enter Duplicate sample IDs if other than LCS/LCSD in the space below.

Evaluation of duplicate precision is not applicable if either the sample or duplicate results are below the MDC.

Comments:

28/8/16

Sample Matrix Spike Control Assessment

Sample Collection Date:
Sample I.D.:
Sample MS I.D.:
Sample MSD I.D.:

Spike I.D.:
MS/MSD Decay Corrected Spike Concentration (pCi/mL):
Spike Volume Used in MS (mL):
Spike Volume Used in MSD (mL):
MS Aliquot (L, g, F):
MS Target Conc. (pCi/L, g, F):
MSD Aliquot (L, g, F):
MSD Target Conc. (pCi/L, g, F):
Spike uncertainty (calculated):

Sample Result:
Sample Result Counting Uncertainty (pCi/L, g, F):
Sample Matrix Spike Result:
Matrix Spike Result Counting Uncertainty (pCi/L, g, F):
Sample Matrix Spike Duplicate Result:
Sample Matrix Spike Duplicate Result Counting Uncertainty (pCi/L, g, F):
MS Numerical Performance Indicator:
MSD Numerical Performance Indicator:
MS Percent Recovery:
MSD Percent Recovery:
MS Status vs Numerical Indicator:
MSD Status vs Numerical Indicator:
MS Status vs Recovery:
MSD Status vs Recovery:

Matrix Spike/Matrix Spike Duplicate Sample Assessment

Sample I.D.:
Sample MS I.D.:
Sample MSD I.D.:

Sample Matrix Spike Result:
Matrix Spike Result Counting Uncertainty (pCi/L, g, F):
Sample Matrix Spike Duplicate Result:
Sample Matrix Spike Duplicate Result Counting Uncertainty (pCi/L, g, F):
Duplicate Numerical Performance Indicator:
MS/MSD Duplicate RPD:
MS/MSD Duplicate Status vs Numerical Indicator:
MS/MSD Duplicate Status vs RPD:

August 08, 2016

Maria Padilla
GA Power
2480 Maner Rd
Atlanta, GA 30339

RE: Project: Plant Scherer
Pace Project No.: 30188590

Dear Maria Padilla:

Enclosed are the analytical results for sample(s) received by the laboratory on July 01, 2016. The results relate only to the samples included in this report. Results reported herein conform to the most current TNI standards and the laboratory's Quality Assurance Manual, where applicable, unless otherwise noted in the body of the report.

If you have any questions concerning this report, please feel free to contact me.

Sincerely,



Jacquelyn Collins
jacquelyn.collins@pacelabs.com
Project Manager

Enclosures



REPORT OF LABORATORY ANALYSIS

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CERTIFICATIONS

Project: Plant Scherer
Pace Project No.: 30188590

Pennsylvania Certification IDs

1638 Roseytown Rd Suites 2,3&4, Greensburg, PA 15601
L-A-B DOD-ELAP Accreditation #: L2417
Alabama Certification #: 41590
Arizona Certification #: AZ0734
Arkansas Certification
California Certification #: 04222CA
Colorado Certification
Connecticut Certification #: PH-0694
Delaware Certification
Florida/TNI Certification #: E87683
Georgia Certification #: C040
Guam Certification
Hawaii Certification
Idaho Certification
Illinois Certification
Indiana Certification
Iowa Certification #: 391
Kansas/TNI Certification #: E-10358
Kentucky Certification #: 90133
Louisiana DHH/TNI Certification #: LA140008
Louisiana DEQ/TNI Certification #: 4086
Maine Certification #: PA00091
Maryland Certification #: 308
Massachusetts Certification #: M-PA1457
Michigan/PADEP Certification
Missouri Certification #: 235

Montana Certification #: Cert 0082
Nebraska Certification #: NE-05-29-14
Nevada Certification #: PA014572015-1
New Hampshire/TNI Certification #: 2976
New Jersey/TNI Certification #: PA 051
New Mexico Certification #: PA01457
New York/TNI Certification #: 10888
North Carolina Certification #: 42706
North Dakota Certification #: R-190
Oregon/TNI Certification #: PA200002
Pennsylvania/TNI Certification #: 65-00282
Puerto Rico Certification #: PA01457
Rhode Island Certification #: 65-00282
South Dakota Certification
Tennessee Certification #: TN2867
Texas/TNI Certification #: T104704188-14-8
Utah/TNI Certification #: PA014572015-5
USDA Soil Permit #: P330-14-00213
Vermont Dept. of Health: ID# VT-0282
Virgin Island/PADEP Certification
Virginia/VELAP Certification #: 460198
Washington Certification #: C868
West Virginia DEP Certification #: 143
West Virginia DHHR Certification #: 9964C
Wisconsin Certification
Wyoming Certification #: 8TMS-L

REPORT OF LABORATORY ANALYSIS

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SAMPLE SUMMARY

Project: Plant Scherer
Pace Project No.: 30188590

Lab ID	Sample ID	Matrix	Date Collected	Date Received
30188590001	SGWC-23	Water	06/29/16 10:18	07/01/16 10:15
30188590002	SGWC-20	Water	06/29/16 12:58	07/01/16 10:15
30188590003	EQB-7	Water	06/29/16 13:58	07/01/16 10:15

REPORT OF LABORATORY ANALYSIS

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SAMPLE ANALYTE COUNT

Project: Plant Scherer

Pace Project No.: 30188590

Lab ID	Sample ID	Method	Analysts	Analytes Reported
30188590001	SGWC-23	EPA 9315	JAL	1
		EPA 9320	JLW	1
		Total Radium Calculation	RMK	1
30188590002	SGWC-20	EPA 9315	JAL	1
		EPA 9320	JLW	1
		Total Radium Calculation	RMK	1
30188590003	EQB-7	EPA 9315	JAL	1
		EPA 9320	JLW	1
		Total Radium Calculation	RMK	1

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: Plant Scherer

Pace Project No.: 30188590

Parameters		Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
Sample: SGWC-23		Lab ID: 30188590001	Collected: 06/29/16 10:18	Received: 07/01/16 10:15	Matrix: Water		
PWS:		Site ID:	Sample Type:				
Radium-226	EPA 9315	0.273 ± 0.166 (0.257)	pCi/L	07/31/16 07:16	13982-63-3		
Radium-228	EPA 9320	0.150 ± 0.361 (0.803)	pCi/L	07/29/16 11:39	15262-20-1		
Total Radium	Total Radium Calculation	0.423 ± 0.527 (1.06)	pCi/L	08/05/16 16:06	7440-14-4		

Parameters		Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
Sample: SGWC-20		Lab ID: 30188590002	Collected: 06/29/16 12:58	Received: 07/01/16 10:15	Matrix: Water		
PWS:		Site ID:	Sample Type:				
Radium-226	EPA 9315	0.0117 ± 0.0745 (0.199)	pCi/L	07/31/16 07:17	13982-63-3		
Radium-228	EPA 9320	0.150 ± 0.382 (0.853)	pCi/L	07/29/16 11:39	15262-20-1		
Total Radium	Total Radium Calculation	0.162 ± 0.457 (1.05)	pCi/L	08/05/16 16:06	7440-14-4		

Parameters		Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
Sample: EQB-7		Lab ID: 30188590003	Collected: 06/29/16 13:58	Received: 07/01/16 10:15	Matrix: Water		
PWS:		Site ID:	Sample Type:				
Radium-226	EPA 9315	0.0110 ± 0.0831 (0.218)	pCi/L	07/31/16 07:17	13982-63-3		
Radium-228	EPA 9320	0.180 ± 0.316 (0.690)	pCi/L	07/29/16 11:39	15262-20-1		
Total Radium	Total Radium Calculation	0.191 ± 0.399 (0.908)	pCi/L	08/05/16 16:06	7440-14-4		

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL - RADIOCHEMISTRY

Project: Plant Scherer

Pace Project No.: 30188590

QC Batch: 227094 Analysis Method: EPA 9315

QC Batch Method: EPA 9315 Analysis Description: 9315 Total Radium

Associated Lab Samples: 30188590001, 30188590002, 30188590003

METHOD BLANK: 1112538 Matrix: Water

Associated Lab Samples: 30188590001, 30188590002, 30188590003

Parameter	Act ± Unc (MDC) Carr Trac	Units	Analyzed	Qualifiers
Radium-226	-0.0383 ± 0.0434 (0.181) C:69% T:NA	pCi/L	07/31/16 06:59	

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL - RADIOCHEMISTRY

Project: Plant Scherer

Pace Project No.: 30188590

QC Batch: 227033

Analysis Method: EPA 9320

QC Batch Method: EPA 9320

Analysis Description: 9320 Radium 228

Associated Lab Samples: 30188590001, 30188590002, 30188590003

METHOD BLANK: 1112335

Matrix: Water

Associated Lab Samples: 30188590001, 30188590002, 30188590003

Parameter	Act ± Unc (MDC) Carr Trac	Units	Analyzed	Qualifiers
Radium-228	0.351 ± 0.393 (0.824) C:73% T:79%	pCi/L	07/29/16 11:39	

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

REPORT OF LABORATORY ANALYSIS

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QUALIFIERS

Project: Plant Scherer
Pace Project No.: 30188590

DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to dilution of the sample aliquot.

ND - Not Detected at or above adjusted reporting limit.

J - Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit.

MDL - Adjusted Method Detection Limit.

PQL - Practical Quantitation Limit.

RL - Reporting Limit.

S - Surrogate

1,2-Diphenylhydrazine decomposes to and cannot be separated from Azobenzene using Method 8270. The result for each analyte is a combined concentration.

Consistent with EPA guidelines, unrounded data are displayed and have been used to calculate % recovery and RPD values.

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

U - Indicates the compound was analyzed for, but not detected.

N-Nitrosodiphenylamine decomposes and cannot be separated from Diphenylamine using Method 8270. The result reported for each analyte is a combined concentration.

Act - Activity

Unc - Uncertainty: SDWA = 1.96 sigma count uncertainty, all other matrices = Expanded Uncertainty (95% confidence interval).

Gamma Spec = Expanded Uncertainty (95.4% Confidence Interval)

(MDC) - Minimum Detectable Concentration

Trac - Tracer Recovery (%)

Carr - Carrier Recovery (%)

Pace Analytical is TNI accredited. Contact your Pace PM for the current list of accredited analytes.

TNI - The NELAC Institute.

REPORT OF LABORATORY ANALYSIS

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Georgia Power Environmental Laboratory
 NELAP Certification #E57554
 2480 Maner Road, BIN 39110
 Atlanta, Georgia 30339
 Phone: (404) 799-2100
 Company: 8-530-2100

**ANALYSIS REQUEST AND
 CHAIN OF CUSTODY RECORD**

LAB USE ONLY
 Work Order No. _____
 Reviewed By: _____
 Page 1 of 1

Sample Shipment Date:⁸ 6/30/16
 Sample Received Date:⁹ _____

Company:¹ Southern Company Services
 Report To: Joju Abraham
 Address:² 241 Ralph McGill Blvd SE B10185
 Atlanta, GA 30308
 Phone/Fax:³ 404-506-7239
 Contact:⁴ Joju Abraham
 Project Location:⁵ Plant Scherer
 Account Number:⁶ _____
 Special Instructions:⁷ Scherer AP CCR GW

Sampled By:¹⁰ B. Hill
 # of Business Days (Rush): _____
 (Must be cleared through Env. Lab. Prior to shipment)

LAB USE ONLY LAB ID	Sample Number ¹⁴	Collection ¹⁵		Sample Description ¹⁶	Sample Type ¹⁷	Matrix ¹⁸	No. of Containers ¹⁹	PRESERVATIVE ²⁰			ANALYSIS REQUESTED ²¹	Sample Type Key: ²²	
		Date	Time					HNO3	Ice	HNO3			
	SAWC-23	6/29/16	10:18		G	GW	3					SW-46 9315 & 9320 Radium 226/228 CI, F, SO4 EPA 300 TDS SM2540C EPA 6020 & EPA 7470 Metals app. III & IV	O-Grab O-Other O-Composite
	SGWC-20	6/29/16	12:58		G	GW	3						S-Solid SW-Surface Water GW-Ground Water W-Drinking Water
	EQB-7	6/29/16	13:58		G	DW	3						Preservative Key: ²⁴ H-Hydrochloric Acid N-Nitric Acid S-Sulfuric Acid SH-Sodium Hydroxide SB-Sodium Borate P-Phosphoric Acid ST-Sodium Thiosulfate U-Untreated
LAB USE ONLY - COMMENTS													
WO#: 30188590													
30188590													

LAB USE ONLY: Sample Receipt Information²³

Relinquished by:²⁶ [Signature] Date/Time 6/30/16 07:03
 Received by:²⁷ [Signature] Date/Time 6/30/16 07:03
 Relinquished by: [Signature] Date/Time 6/30/16 07:31
 Received by: [Signature] Date/Time 6-30-16 08:30

Requested By: [Signature] 6-30-16
P. Big Pace 7/1/16 10:15

Sample Condition Upon Receipt Pittsburgh



Client Name: GA Power

Project # 30188590

Courier: Fed Ex UPS USPS Client Commercial Pace Other _____

Tracking #: 6812 5097 4257 | 6812 5097 3938

Custody Seal on Cooler/Box Present: yes no Seals intact: yes no

Thermometer Used N/A Type of Ice: Wet Blue None

Cooler Temperature Observed Temp N/A °C Correction Factor: N/A °C Final Temp: N/A °C

Temp should be above freezing to 6°C

Date and Initials of person examining contents: ATB 7/1/16

Comments:

	Yes	No	N/A	
Chain of Custody Present:	X			1.
Chain of Custody Filled Out:	X			2.
Chain of Custody Relinquished:	X			3.
Sampler Name & Signature on COC:	X			4.
Sample Labels match COC:	X			5.
-Includes date/time/ID/Analysis Matrix: <u>WT</u>				
Samples Arrived within Hold Time:	X			6.
Short Hold Time Analysis (<72hr remaining):		X		7.
Rush Turn Around Time Requested:		X		8.
Sufficient Volume:	X			9.
Correct Containers Used:	X			10.
-Pace Containers Used:		X		
Containers Intact:	X			11.
Filtered volume received for Dissolved tests			X	12.
All containers needing preservation have been checked.	X			13.
All containers needing preservation are found to be in compliance with EPA recommendation.	X			<u>PH<2</u>
exceptions: VOA, coliform, TOC, O&G, Phenolics				
				Initial when completed <u>7/1/16</u> <u>ATB</u> Date/time of preservation
				Lot # of added preservative
Headspace in VOA Vials (>6mm):			X	14.
Trip Blank Present:			X	15.
Trip Blank Custody Seals Present			X	

Client Notification/ Resolution:

Person Contacted: _____ Date/Time: _____ Contacted By: _____

Comments/ Resolution: _____

Note: Whenever there is a discrepancy affecting North Carolina compliance samples, a copy of this form will be sent to the North Carolina DEHNR Certification Office (i.e. out of hold, incorrect preservative, out of temp, incorrect containers)

Quality Control Sample Performance Assessment

Analyst Must Manually Enter All Fields Highlighted in Yellow.

Test: Ra-226
Analyst: JAL
Date: 7/27/2016
Worklist: 30499
Matrix: DW



Method Blank Assessment	
MB Sample ID	1112538
MB concentration:	-0.038
M/B Counting Uncertainty:	0.043
MB MDC:	0.181
MB Numerical Performance Indicator:	-1.74
MB Status vs Numerical Indicator:	N/A
MB Status vs MDC:	Pass

Laboratory Control Sample Assessment	
LCSD (Y or N)?	Y
LCSD30499	LCSD30499
Count Date:	7/31/2016
Spike ID:	16-001
Spike Concentration (pCi/mL):	47.784
Volume Used (mL):	0.10
Aliquot Volume (L, g, F):	0.507
Target Conc. (pCi/L, g, F):	9.430
Uncertainty (Calculated):	0.444
Result (pCi/L, g, F):	7.744
LCSD Counting Uncertainty (pCi/L, g, F):	0.590
Numerical Performance Indicator:	-4.48
Percent Recovery:	82.12%
Status vs Numerical Indicator:	N/A
Status vs Recovery:	Pass

Duplicate Sample Assessment	
Sample ID:	LCSD30499
Duplicate Sample ID:	LCSD30499
Sample Result (pCi/L, g, F):	7.744
Sample Duplicate Result (pCi/L, g, F):	0.590
Sample Duplicate Result Counting Uncertainty (pCi/L, g, F):	7.165
Are sample and/or duplicate results below MDC?	NO
Duplicate Numerical Performance Indicator:	1.424
Duplicate RPD:	7.77%
Duplicate Status vs Numerical Indicator:	N/A
Duplicate Status vs RPD:	Pass

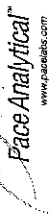
Evaluation of duplicate precision is not applicable if either the sample or duplicate results are below the MDC.

Comments:

Sample Matrix Spike Control Assessment	
Sample Collection Date:	
Sample I.D.:	
Sample MS I.D.:	
Sample MSD I.D.:	
Spike I.D.:	
MS/MSD Decay Corrected Spike Concentration (pCi/mL):	
Spike Volume Used in MS (mL):	
MS Aliquot (L, g, F):	
MS Target Conc. (pCi/L, g, F):	
MSD Aliquot (L, g, F):	
MSD Target Conc. (pCi/L, g, F):	
Spike uncertainty (calculated):	
Sample Result:	
Sample Result Counting Uncertainty (pCi/L, g, F):	
Sample Matrix Spike Result:	
Matrix Spike Result Counting Uncertainty (pCi/L, g, F):	
Sample Matrix Spike Duplicate Result:	
Matrix Spike Duplicate Result Counting Uncertainty (pCi/L, g, F):	
MS Numerical Performance Indicator:	
MS Percent Recovery:	
MSD Percent Recovery:	
MS Status vs Numerical Indicator:	
MSD Status vs Numerical Indicator:	
MS Status vs Recovery:	
MSD Status vs Recovery:	

Matrix Spike/Matrix Spike Duplicate Sample Assessment	
Sample I.D.:	
Sample MS I.D.:	
Sample MSD I.D.:	
Sample Matrix Spike Result:	
Matrix Spike Result Counting Uncertainty (pCi/L, g, F):	
Sample Matrix Spike Duplicate Result:	
Matrix Spike Duplicate Result Counting Uncertainty (pCi/L, g, F):	
Duplicate Numerical Performance Indicator:	
MS/MSD Duplicate RPD:	
MS/MSD Duplicate Status vs Numerical Indicator:	
MS/MSD Duplicate Status vs RPD:	

Quality Control Sample Performance Assessment



Analyst Must Manually Enter All Fields Highlighted in Yellow.

Test: Ra-228
Analyst: JLW
Date: 8/1/2016
Worklist: 30471
Matrix: DW

Method Blank Assessment

MB Sample ID
MB concentration:
M/B Counting Uncertainty:
MB MDC:
MB Numerical Performance Indicator:
MB Status vs Numerical Indicator:
MB Status vs. MDC:

Laboratory Control Sample Assessment		Y
LCS30471		LCS30471
Count Date:	8/3/2016	8/3/2016
Spike I.D.:	16-025	16-025
Spike Concentration (pCi/mL):	26.033	26.033
Volume Used (mL):	0.20	0.20
Aliquot Volume (L, g, F):	0.805	0.805
Target Conc. (pCi/L, g, F):	6.469	6.465
Uncertainty (Calculated):	0.466	0.465
Result (pCi/L, g, F):	7.541	7.936
LCS/LCSD Counting Uncertainty (pCi/L, g, F):	0.949	0.838
Numerical Performance Indicator:	1.99	3.01
Percent Recovery:	116.57%	122.75%
Status vs Numerical Indicator:	N/A	N/A
Status vs Recovery:	Pass	Pass

Duplicate Sample Assessment

Sample I.D.:	LCS30471	LCS30471
Duplicate Sample I.D.:	LCS30471	LCS30471
Sample Result (pCi/L, g, F):	7.541	7.541
Sample Result Counting Uncertainty (pCi/L, g, F):	0.949	0.949
Sample Duplicate Result (pCi/L, g, F):	7.936	7.936
Sample Duplicate Result Counting Uncertainty (pCi/L, g, F):	0.838	0.838
Are sample and/or duplicate results below MDC?	NO	NO
Duplicate Numerical Performance Indicator:	-0.612	-0.612
Duplicate RPD:	5.11%	5.11%
Duplicate Status vs Numerical Indicator:	N/A	N/A
Duplicate Status vs RPD:	Pass	Pass

Evaluation of duplicate precision is not applicable if either the sample or duplicate results are below the MDC.

Comments:

Sample Matrix Spike Control Assessment

Sample Collection Date:
Sample I.D.:
Sample MS I.D.:
Sample MSD I.D.:
Spike I.D.:

MS/MSD Decay Corrected Spike Concentration (pCi/mL):
Spike Volume Used in MS (mL):
MS Aliquot (L, g, F):
MS Target Conc. (pCi/L, g, F):
MSD Aliquot (L, g, F):
MSD Target Conc. (pCi/L, g, F):
Spike uncertainty (calculated):
Sample Result:
Sample Result Counting Uncertainty (pCi/L, g, F):
Sample Matrix Spike Result:
Matrix Spike Result Counting Uncertainty (pCi/L, g, F):
Sample Matrix Spike Duplicate Result:
Matrix Spike Duplicate Result Counting Uncertainty (pCi/L, g, F):
MS Numerical Performance Indicator:
MSD Numerical Performance Indicator:
MS Percent Recovery:
MSD Percent Recovery:
MS Status vs Numerical Indicator:
MSD Status vs Numerical Indicator:
MS Status vs Recovery:
MSD Status vs Recovery:

Matrix Spike/Matrix Spike Duplicate Sample Assessment

Sample I.D.:
Sample MS I.D.:
Sample MSD I.D.:
Spike I.D.:

Matrix Spike Result Counting Uncertainty (pCi/L, g, F):
Sample Matrix Spike Duplicate Result:
Matrix Spike Duplicate Result Counting Uncertainty (pCi/L, g, F):
Duplicate Numerical Performance Indicator:
MS/MSD Duplicate RPD:
MS/MSD Duplicate Status vs Numerical Indicator:
MS/MSD Duplicate Status vs RPD:

Quality Control Sample Performance Assessment



Test: Ra-228
Analyst: JLW
Date: 7/26/2016
Worklist: 30471
Matrix: DW

Analyst Must Manually Enter All Fields Highlighted in Yellow.

Method Blank Assessment	
MB Sample ID	1112335
MB concentration:	0.351
M/B Counting Uncertainty:	0.388
MB MDC:	0.824
MB Numerical Performance Indicator:	1.77
MB Status vs Numerical Indicator:	N/A
MB Status vs. MDC:	Pass

Laboratory Control Sample Assessment	
Count Date:	7/29/2016
Spike I.D.:	16-025
Spike Concentration (pCi/mL):	26.077
Volume Used (mL):	0.20
Aliquot Volume (L, g, F):	0.805
Target Conc. (pCi/L, g, F):	6.480
Uncertainty (Calculated):	0.467
Result (pCi/L, g, F):	4.275
LCS/LCSD Counting Uncertainty (pCi/L, g, F):	0.707
Numerical Performance Indicator:	-5.10
Percent Recovery:	65.97%
Status vs Numerical Indicator:	N/A
Status vs Recovery:	Pass

Duplicate Sample Assessment	
Sample I.D.:	LCS30471
Duplicate Sample I.D.:	LCS30471
Sample Result (pCi/L, g, F):	4.275
Sample Duplicate Result (pCi/L, g, F):	0.707
Sample Duplicate Result Counting Uncertainty (pCi/L, g, F):	6.743
Are sample and/or duplicate results below MDC?	NO
Duplicate Numerical Performance Indicator:	-4.608
Duplicate RPD:	44.79%
Duplicate Status vs Numerical Indicator:	N/A
Duplicate Status vs RPD:	Fail***

Evaluation of duplicate precision is not applicable if either the sample or duplicate results are below the MDC.

Comments:

***Batch must be re-prepped due to unacceptable precision.

Sample Matrix Spike Control Assessment	
Sample Collection Date:	
Sample I.D.:	
Sample MS I.D.:	
Sample MSD I.D.:	
MS/MSD Decay Corrected Spike Concentration (pCi/mL):	
Spike Volume Used in MS (mL):	
MS Alliquot (L, g, F):	
MS Target Conc. (pCi/L, g, F):	
MSD Aliquot (L, g, F):	
MSD Target Conc. (pCi/L, g, F):	
Spike uncertainty (calculated):	
Sample Result:	
Sample Result Counting Uncertainty (pCi/L, g, F):	
Sample Matrix Spike Result:	
Sample Result Counting Uncertainty (pCi/L, g, F):	
Sample Matrix Spike Duplicate Result:	
Sample Duplicate Result Counting Uncertainty (pCi/L, g, F):	
MS Numerical Performance Indicator:	
MSD Numerical Performance Indicator:	
MS Percent Recovery:	
MSD Percent Recovery:	
MS Status vs Numerical Indicator:	
MSD Status vs Numerical Indicator:	
MS Status vs Recovery:	
MSD Status vs Recovery:	

Matrix Spike/Matrix Spike Duplicate Sample Assessment	
Sample I.D.:	
Sample MS I.D.:	
Sample MSD I.D.:	
Sample Matrix Spike Result:	
Sample Matrix Spike Duplicate Result:	
Sample Matrix Spike Counting Uncertainty (pCi/L, g, F):	
Sample Matrix Spike Duplicate Counting Uncertainty (pCi/L, g, F):	
Duplicate Numerical Performance Indicator:	
MS/MSD Duplicate RPD:	
MS/MSD Duplicate Status vs Numerical Indicator:	
MS/MSD Duplicate Status vs RPD:	

August 08, 2016

Maria Padilla
GA Power
2480 Maner Rd
Atlanta, GA 30339

RE: Project: Plant Scherer
Pace Project No.: 30188588

Dear Maria Padilla:

Enclosed are the analytical results for sample(s) received by the laboratory on July 01, 2016. The results relate only to the samples included in this report. Results reported herein conform to the most current TNI standards and the laboratory's Quality Assurance Manual, where applicable, unless otherwise noted in the body of the report.

If you have any questions concerning this report, please feel free to contact me.

Sincerely,



Jacquelyn Collins
jacquelyn.collins@pacelabs.com
Project Manager

Enclosures



REPORT OF LABORATORY ANALYSIS

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CERTIFICATIONS

Project: Plant Scherer

Pace Project No.: 30188588

Pennsylvania Certification IDs

1638 Roseytown Rd Suites 2,3&4, Greensburg, PA 15601

L-A-B DOD-ELAP Accreditation #: L2417

Alabama Certification #: 41590

Arizona Certification #: AZ0734

Arkansas Certification

California Certification #: 04222CA

Colorado Certification

Connecticut Certification #: PH-0694

Delaware Certification

Florida/TNI Certification #: E87683

Georgia Certification #: C040

Guam Certification

Hawaii Certification

Idaho Certification

Illinois Certification

Indiana Certification

Iowa Certification #: 391

Kansas/TNI Certification #: E-10358

Kentucky Certification #: 90133

Louisiana DHH/TNI Certification #: LA140008

Louisiana DEQ/TNI Certification #: 4086

Maine Certification #: PA00091

Maryland Certification #: 308

Massachusetts Certification #: M-PA1457

Michigan/PADEP Certification

Missouri Certification #: 235

Montana Certification #: Cert 0082

Nebraska Certification #: NE-05-29-14

Nevada Certification #: PA014572015-1

New Hampshire/TNI Certification #: 2976

New Jersey/TNI Certification #: PA 051

New Mexico Certification #: PA01457

New York/TNI Certification #: 10888

North Carolina Certification #: 42706

North Dakota Certification #: R-190

Oregon/TNI Certification #: PA200002

Pennsylvania/TNI Certification #: 65-00282

Puerto Rico Certification #: PA01457

Rhode Island Certification #: 65-00282

South Dakota Certification

Tennessee Certification #: TN2867

Texas/TNI Certification #: T104704188-14-8

Utah/TNI Certification #: PA014572015-5

USDA Soil Permit #: P330-14-00213

Vermont Dept. of Health: ID# VT-0282

Virgin Island/PADEP Certification

Virginia/VELAP Certification #: 460198

Washington Certification #: C868

West Virginia DEP Certification #: 143

West Virginia DHHR Certification #: 9964C

Wisconsin Certification

Wyoming Certification #: 8TMS-L

REPORT OF LABORATORY ANALYSIS

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SAMPLE SUMMARY

Project: Plant Scherer

Pace Project No.: 30188588

Lab ID	Sample ID	Matrix	Date Collected	Date Received
30188588001	SGWC-22	Water	06/29/16 11:11	07/01/16 10:15
30188588002	SGWC-19	Water	06/29/16 13:33	07/01/16 10:15
30188588003	DUP-7	Water	06/29/16 00:01	07/01/16 10:15

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SAMPLE ANALYTE COUNT

Project: Plant Scherer
Pace Project No.: 30188588

Lab ID	Sample ID	Method	Analysts	Analytes Reported
30188588001	SGWC-22	EPA 9315	JAL	1
		EPA 9320	JLW	1
		Total Radium Calculation	RMK	1
30188588002	SGWC-19	EPA 9315	JAL	1
		EPA 9320	JLW	1
		Total Radium Calculation	RMK	1
30188588003	DUP-7	EPA 9315	JAL	1
		EPA 9320	JLW	1
		Total Radium Calculation	RMK	1

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: Plant Scherer

Pace Project No.: 30188588

Parameters		Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
Radium-226		EPA 9315	0.0439 ± 0.0874 (0.203) C:63% T:NA	pCi/L	07/31/16 07:15	13982-63-3	
Radium-228		EPA 9320	1.06 ± 0.422 (0.627) C:74% T:84%	pCi/L	08/08/16 12:02	15262-20-1	
Total Radium		Total Radium Calculation	1.10 ± 0.509 (0.830)	pCi/L	08/08/16 17:39	7440-14-4	

Parameters		Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
Radium-226		EPA 9315	-0.0475 ± 0.0829 (0.263) C:62% T:NA	pCi/L	07/31/16 07:15	13982-63-3	
Radium-228		EPA 9320	0.443 ± 0.325 (0.620) C:71% T:84%	pCi/L	08/08/16 12:02	15262-20-1	
Total Radium		Total Radium Calculation	0.396 ± 0.408 (0.883)	pCi/L	08/08/16 17:39	7440-14-4	

Parameters		Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
Radium-226		EPA 9315	-0.0280 ± 0.0789 (0.235) C:71% T:NA	pCi/L	07/31/16 07:15	13982-63-3	
Radium-228		EPA 9320	0.499 ± 0.334 (0.630) C:74% T:88%	pCi/L	08/08/16 12:02	15262-20-1	
Total Radium		Total Radium Calculation	0.471 ± 0.413 (0.865)	pCi/L	08/08/16 17:39	7440-14-4	

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL - RADIOCHEMISTRY

Project: Plant Scherer

Pace Project No.: 30188588

QC Batch: 227094

Analysis Method: EPA 9315

QC Batch Method: EPA 9315

Analysis Description: 9315 Total Radium

Associated Lab Samples: 30188588001, 30188588002, 30188588003

METHOD BLANK: 1112538

Matrix: Water

Associated Lab Samples: 30188588001, 30188588002, 30188588003

Parameter	Act ± Unc (MDC) Carr Trac	Units	Analyzed	Qualifiers
Radium-226	-0.0383 ± 0.0434 (0.181) C:69% T:NA	pCi/L	07/31/16 06:59	

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL - RADIOCHEMISTRY

Project: Plant Scherer

Pace Project No.: 30188588

QC Batch: 228621

Analysis Method: EPA 9320

QC Batch Method: EPA 9320

Analysis Description: 9320 Radium 228

Associated Lab Samples: 30188588001, 30188588002, 30188588003

METHOD BLANK: 1119865

Matrix: Water

Associated Lab Samples: 30188588001, 30188588002, 30188588003

Parameter	Act ± Unc (MDC) Carr Trac	Units	Analyzed	Qualifiers
Radium-228	0.599 ± 0.344 (0.624) C:74% T:94%	pCi/L	08/08/16 12:00	

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

REPORT OF LABORATORY ANALYSIS

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QUALIFIERS

Project: Plant Scherer
Pace Project No.: 30188588

DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to dilution of the sample aliquot.

ND - Not Detected at or above adjusted reporting limit.

J - Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit.

MDL - Adjusted Method Detection Limit.

PQL - Practical Quantitation Limit.

RL - Reporting Limit.

S - Surrogate

1,2-Diphenylhydrazine decomposes to and cannot be separated from Azobenzene using Method 8270. The result for each analyte is a combined concentration.

Consistent with EPA guidelines, unrounded data are displayed and have been used to calculate % recovery and RPD values.

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

U - Indicates the compound was analyzed for, but not detected.

N-Nitrosodiphenylamine decomposes and cannot be separated from Diphenylamine using Method 8270. The result reported for each analyte is a combined concentration.

Act - Activity

Unc - Uncertainty: SDWA = 1.96 sigma count uncertainty, all other matrices = Expanded Uncertainty (95% confidence interval).

Gamma Spec = Expanded Uncertainty (95.4% Confidence Interval)

(MDC) - Minimum Detectable Concentration

Trac - Tracer Recovery (%)

Carr - Carrier Recovery (%)

Pace Analytical is TNI accredited. Contact your Pace PM for the current list of accredited analytes.

TNI - The NELAC Institute.

REPORT OF LABORATORY ANALYSIS

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Georgia Power Environmental Laboratory
 NELAP Certification #E57554
 2480 Maner Road, BIN 39110
 Atlanta, Georgia 30339
 Phone: (404) 799-2100
 Company: 8-530-2100

**ANALYSIS REQUEST AND
 CHAIN OF CUSTODY RECORD**


**LAB
 USE
 ONLY**

Work Order No. _____
 Reviewed By: _____
 11 Page 1 of 1

Sample Shipment Date:⁸ 6/30/16
 Sample Received Date:⁹ _____
 Sampled By:¹⁰ Charles Watson
 # of Business Days (Rush) _____
 (Must be cleared through Env. Lab. Prior to shipment)

Company:¹ Southern Company Services
 Report To: Joju Abraham
 Address:² 241 Ralph McGill Blvd SE B10185
 Atlanta, GA 30308
 Phone/Fax:³ 404-506-7239
 Contact:⁴ Joju Abraham
 Project Location:⁵ Plant Scherer
 Account Number:⁶ _____
 Special _____
 Instructions:⁷ Scherer AP CCR GW

LAB USE ONLY LAB ID	Sample Number ¹⁴	Collection ¹⁵		Sample Description ¹⁶	Sample Type ¹⁷	Matrix ¹⁸	No. of Containers ¹⁹	PRESERVATIVE ²⁰			ANALYSIS REQUESTED ²¹	Sample Type Key: 22					
		Date	Time					HNO3	Ice	HNO3		N	N	C-Other	C-Composite		
		Matrix Key: 23						Preservative Key: 24									
	SGWC-22	6/29/16	1111		G	GW	3	X	X	X							
	SGWC-19	6/29/16	1333		G	GW	3	X	X	X							
	DUP-7	6/29/16	---		G	GW	3	X	X	X							
EPA 6020 & EPA 7470 Metals app. III & IV Cl, F, SO4 EPA 300 TDS SM2540C Radium 226/228; SW-846 9315 & 9320																	
Matrix Key: 23 C-Cl S-Solid S-Sludge W-Wipe SW Surface Water CH-Ground Water WW-Waste Water DW-Drinking Water													Preservative Key: 24 H-Hydrochloric Acid N-Nitric Acid S-Sulfuric Acid SH-Sodium Hydroxide SS-Sodium Sulfate P-Phosphoric Acid ST-Sodium Thiosulfate Hce U-Unpreserved				

WO#: 30188588

 30188588

Relinquished by:²⁶ _____ Date/Time 6/30/16 650
 Received by:²⁷ _____ Date/Time 6/30/16 0203
 Relinquished by: _____ Date/Time 6/30/16 0930
 Received by: _____ Date/Time 6-30-16 00850

Relinquished By: PBJ Pace
 Date: 7/1/16 Time: 1015
6-30-16

Sample Condition Upon Receipt Pittsburgh



Client Name: GA Power

Project # 30188588

Courier: Fed Ex UPS USPS Client Commercial Pace Other _____

Tracking #: 6812 5097 4257 6812 5097 3938

Custody Seal on Cooler/Box Present: yes no Seals intact: yes no

Thermometer Used N/A Type of Ice: Wet Blue None

Cooler Temperature Observed Temp N/A °C Correction Factor: N/A °C Final Temp: N/A °C

Temp should be above freezing to 6°C

Date and Initials of person examining contents: RTB 7/1/16

Comments:

	Yes	No	N/A	
Chain of Custody Present:	X			1.
Chain of Custody Filled Out:	X			2.
Chain of Custody Relinquished:	X			3.
Sampler Name & Signature on COC:	X			4.
Sample Labels match COC:	X			5.
-Includes date/time/ID/Analysis Matrix: <u>WT</u>				
Samples Arrived within Hold Time:	X			6.
Short Hold Time Analysis (<72hr remaining):		X		7.
Rush Turn Around Time Requested:		X		8.
Sufficient Volume:	X			9.
Correct Containers Used:	X			10.
-Pace Containers Used:		X		
Containers Intact:	X			11.
Filtered volume received for Dissolved tests			X	12.
All containers needing preservation have been checked.	X			13. <u>pH < 2</u>
All containers needing preservation are found to be in compliance with EPA recommendation.	X			
exceptions: VOA, coliform, TOC, O&G, Phenolics				Initial when completed <u>7/1/16</u> <u>RTB</u> Date/time of preservation
				Lot # of added preservative
Headspace in VOA Vials (>6mm):			X	14.
Trip Blank Present:			X	15.
Trip Blank Custody Seals Present			X	

Client Notification/ Resolution:

Person Contacted: _____ Date/Time: _____ Contacted By: _____

Comments/ Resolution: _____

Note: Whenever there is a discrepancy affecting North Carolina compliance samples, a copy of this form will be sent to the North Carolina DEHNR Certification Office (i.e out of hold, incorrect preservative, out of temp, incorrect containers)

Quality Control Sample Performance Assessment

Analyst Must Manually Enter All Fields Highlighted in Yellow.

Test: Ra-226
Analyst: JAL
Date: 7/27/2016
Worklist: 30499
Matrix: DW



Method Blank Assessment

MB Sample ID: 1112538
MB concentration: -0.038
MB Counting Uncertainty: 0.043
MB MDC: 0.181
MB Numerical Performance Indicator: -1.74
MB Status vs Numerical Indicator: N/A
MB Status vs MDC: Pass

Laboratory Control Sample Assessment

Count Date:	LCSD (Y or N)?	Y
7/31/2016	LCS30499	LCS30499
16-001	7/31/2016	7/31/2016
47.784	16-001	16-001
0.10	47.784	47.784
0.507	0.10	0.10
9.430	0.507	0.515
0.444	9.430	9.273
7.744	0.444	0.436
7.165	7.744	7.165
0.590	7.165	0.535
-4.48	0.590	-5.98
82.12%	-4.48	77.26%
N/A	82.12%	N/A
Pass	N/A	Pass

Count Date: 7/31/2016
Spike I.D.: 16-001
Spike Concentration (pCi/mL): 47.784
Volume Used (mL): 0.10
Aliquot Volume (L, g, F): 0.507
Target Conc. (pCi/L, g, F): 9.430
Uncertainty (Calculated): 0.444
Result (pCi/L, g, F): 7.744
LCSD Counting Uncertainty (pCi/L, g, F): 7.165
Numerical Performance Indicator: 0.590
Percent Recovery: -4.48
Status vs Numerical Indicator: 82.12%
Status vs Recovery: 77.26%

Duplicate Sample Assessment

Sample I.D.: LCS30499
Duplicate Sample I.D.: LCS30499
Sample Result (pCi/L, g, F): 7.744
Sample Duplicate Result (pCi/L, g, F): 0.590
Sample Duplicate Result (pCi/L, g, F): 7.165
Sample Duplicate Result (pCi/L, g, F): 0.535
Are sample and/or duplicate results below MDC? NO
Duplicate Numerical Performance Indicator: 1.424
Duplicate RPD: 7.77%
Duplicate Status vs Numerical Indicator: N/A
Duplicate Status vs RPD: Pass

Duplicate Sample Assessment

Enter Duplicate sample IDs if other than LCS/LCSD in the space below.

Sample Matrix Spike Control Assessment

Sample Collection Date:
Sample I.D.:
Sample MS I.D.:
Spike I.D.:
MS/MSD Decay Corrected Spike Concentration (pCi/mL):
Spike Volume Used in MS (mL):
Spike Volume Used in MSD (mL):
MS Aliquot (L, g, F):
MS Target Conc. (pCi/L, g, F):
MSD Aliquot (L, g, F):
MSD Target Conc. (pCi/L, g, F):
Spike uncertainty (calculated):
Sample Result:
Sample Result Counting Uncertainty (pCi/L, g, F):
Sample Matrix Spike Result:
Sample Matrix Spike Duplicate Result:
MS Numerical Performance Indicator:
MS Percent Recovery:
MS Status vs Numerical Indicator:
MSD Status vs Numerical Indicator:
MS Status vs Recovery:
MSD Status vs Recovery:

Matrix Spike/Matrix Spike Duplicate Sample Assessment

Sample I.D.:
Sample MS I.D.:
Sample MSD I.D.:
Sample Matrix Spike Result:
Sample Matrix Spike Duplicate Result:
Duplicate Numerical Performance Indicator:
MS/MSD Duplicate RPD:
MS/MSD Duplicate Status vs Numerical Indicator:
MS/MSD Duplicate Status vs RPD:

Evaluation of duplicate precision is not applicable if either the sample or duplicate results are below the MDC.

Comments:

28/8/16

Quality Control Sample Performance Assessment

Analyst Must Manually Enter All Fields Highlighted in Yellow.

Test: Ra-228
Analyst: JLW
Date: 7/22/2016
Worklist: 30436
Matrix: DW



Method Blank Assessment

MB Sample ID: 1111749
MB Concentration: 0.746
MB Counting Uncertainty: 0.339
MB MDC: 0.611
MB Numerical Performance Indicator: 4.32
MB Status vs Numerical Indicator: N/A
MB Status vs MDC: See Comment*

Laboratory Control Sample Assessment

Count Date:	LCSID (Y or N)?
7/28/2016	LCS30436
16-025	7/28/2016
26.085	Y
0.20	
0.800	
6.518	
0.469	
4.983	
3.250	
0.70	
121.48%	
N/A	
Pass	
Pass	

Spike Concentration (pCi/mL): 26.085
Volume Used (mL): 0.20
Aliquot Volume (L, g, F): 0.804
Target Conc. (pCi/L, g, F): 6.490
Uncertainty (Calculated): 0.467
Result (pCi/L, g, F): 7.884
LCS/LCSD Counting Uncertainty (pCi/L, g, F): 3.900
Numerical Performance Indicator: 0.70
Percent Recovery: 121.48%
Status vs Numerical Indicator: N/A
Status vs Recovery: Pass

Duplicate Sample Assessment

Sample I.D.: LCS30436
Duplicate Sample I.D.: LCS30436
Sample Result Counting Uncertainty (pCi/L, g, F): 7.884
Sample Duplicate Result Counting Uncertainty (pCi/L, g, F): 3.900
Sample Duplicate Result Counting Uncertainty (pCi/L, g, F): 4.983
Are sample and/or duplicate results below MDC? NO
Duplicate Numerical Performance Indicator: 1.120
Duplicate RPD: 45.10%
Duplicate Status vs Numerical Indicator: N/A
Duplicate Status vs RPD: Fail***

Sample Matrix Spike Control Assessment

Sample Collection Date:
Sample I.D.:
Sample MS I.D.:
Sample MSD I.D.:
Spike I.D.:
MS/MSD Decay Corrected Spike Concentration (pCi/mL):
Spike Volume Used in MS (mL):
Spike Volume Used in MSD (mL):
MS Aliquot (L, g, F):
MS Target Conc. (pCi/L, g, F):
MSD Aliquot (L, g, F):
MSD Target Conc. (pCi/L, g, F):
Spike uncertainty (calculated):
Sample Result Counting Uncertainty (pCi/L, g, F):
Sample Matrix Spike Result:
Matrix Spike Result Counting Uncertainty (pCi/L, g, F):
Sample Matrix Spike Duplicate Result:
Matrix Spike Duplicate Result Counting Uncertainty (pCi/L, g, F):
MS Numerical Performance Indicator:
MSD Numerical Performance Indicator:
MS Percent Recovery:
MSD Percent Recovery:
MS Status vs Numerical Indicator:
MSD Status vs Numerical Indicator:
MS Status vs Recovery:
MSD Status vs Recovery:

Matrix Spike/Matrix Spike Duplicate Sample Assessment

Sample I.D.:
Sample MS I.D.:
Sample MSD I.D.:
Sample Matrix Spike Result:
Matrix Spike Result Counting Uncertainty (pCi/L, g, F):
Sample Matrix Spike Duplicate Result:
Matrix Spike Duplicate Result Counting Uncertainty (pCi/L, g, F):
Duplicate Numerical Performance Indicator:
MS/MSD Duplicate RPD:
MS/MSD Duplicate Status vs Numerical Indicator:
MS/MSD Duplicate Status vs RPD:

Enter Duplicate sample IDs if other than LCS/LCSD in the space below.

Evaluation of duplicate precision is not applicable if either the sample or duplicate results are below the MDC.

Comments: *The method blank result is below the reporting limit for this analysis and is acceptable.

***Batch must be re-prepped due to unacceptable precision.

28/8/16

* Numerical Indicator 'samples' is acceptable w/ samples.

Quality Control Sample Performance Assessment



Analyst **Must Manually Enter All Fields Highlighted in Yellow.**

Test: Ra-228
Analyst: JLW
Date: 8/4/2016
Worklist: 30698
Matrix: DW

Method Blank Assessment

MB Sample ID: 1119886
MB Concentration: 0.599
M/B Counting Uncertainty: 0.327
MB MDC: 0.624
MB Numerical Performance Indicator: 3.59
MB Status vs Numerical Indicator: N/A
MB Status vs. MDC: Pass

Laboratory Control Sample Assessment

Count Date:	Y
8/8/2016	LCS030698
16-025	18-025
25.991	25.991
0.20	0.20
0.800	0.809
6.496	6.429
0.468	0.463
5.872	4.591
0.704	0.616
-1.45	-4.68
90.38%	71.41%
N/A	N/A
Pass	Pass

LCS/LCSD Counting Uncertainty (pCi/L, g, F):
Numerical Performance Indicator:
Percent Recovery:
Status vs Numerical Indicator:
Status vs Recovery:

Duplicate Sample Assessment

Sample I.D.: LCS030698
Duplicate Sample I.D.: LCS030698
Sample Result Counting Uncertainty (pCi/L, g, F): 5.872
Sample Duplicate Result Counting Uncertainty (pCi/L, g, F): 0.704
Sample Duplicate Result Counting Uncertainty (pCi/L, g, F): 4.591
Are sample and/or duplicate results below MDC? NO
Duplicate Numerical Performance Indicator: 2.683
Duplicate RPD: 24.47%
Duplicate Status vs Numerical Indicator: N/A
Duplicate Status vs RPD: Pass

Enter Duplicate sample IDs if other than LCS/LCSD in the space below.

Sample Matrix Spike Control Assessment

Sample Collection Date:
Sample I.D.:
Sample MS I.D.:
Sample MSD I.D.:
Spike I.D.:
MS/MSD Decay Corrected Spike Concentration (pCi/mL):
Spike Volume Used in MS (mL):
Spike Volume Used in MSD (mL):
MS Aliquot (L, g, F):
MS Target Conc. (pCi/L, g, F):
MSD Aliquot (L, g, F):
MSD Target Conc. (pCi/L, g, F):
Spike uncertainty (calculated):
Sample Result Counting Uncertainty (pCi/L, g, F):
Sample Matrix Spike Result:
Matrix Spike Result Counting Uncertainty (pCi/L, g, F):
Sample Matrix Spike Duplicate Result:
Matrix Spike Duplicate Result Counting Uncertainty (pCi/L, g, F):
MS Numerical Performance Indicator:
MSD Numerical Performance Indicator:
MS Percent Recovery:
MSD Percent Recovery:
MS Status vs Numerical Indicator:
MSD Status vs Numerical Indicator:
MS Status vs Recovery:
MSD Status vs Recovery:

Matrix Spike/Matrix Spike Duplicate Sample Assessment

Sample I.D.:
Sample MS I.D.:
Sample MSD I.D.:
Matrix Spike Result Counting Uncertainty (pCi/L, g, F):
Sample Matrix Spike Duplicate Result:
Matrix Spike Duplicate Result Counting Uncertainty (pCi/L, g, F):
Duplicate Numerical Performance Indicator:
MS/MSD Duplicate RPD:
MS/MSD Duplicate Status vs Numerical Indicator:
MS/MSD Duplicate Status vs RPD:

Evaluation of duplicate precision is not applicable if either the sample or duplicate results are below the MDC.

Comments:

JLW 8/18/16

July 26, 2016

Maria Padilla
GA Power
2480 Maner Rd
Atlanta, GA 30339

RE: Project: Plant Scherer
Pace Project No.: 30187845

Dear Maria Padilla:

Enclosed are the analytical results for sample(s) received by the laboratory on June 27, 2016. The results relate only to the samples included in this report. Results reported herein conform to the most current TNI standards and the laboratory's Quality Assurance Manual, where applicable, unless otherwise noted in the body of the report.

If you have any questions concerning this report, please feel free to contact me.

Sincerely,



Jacquelyn Collins
jacquelyn.collins@pacelabs.com
Project Manager

Enclosures



REPORT OF LABORATORY ANALYSIS

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CERTIFICATIONS

Project: Plant Scherer
Pace Project No.: 30187845

Pennsylvania Certification IDs

1638 Roseytown Rd Suites 2,3&4, Greensburg, PA 15601
L-A-B DOD-ELAP Accreditation #: L2417
Alabama Certification #: 41590
Arizona Certification #: AZ0734
Arkansas Certification
California Certification #: 04222CA
Colorado Certification
Connecticut Certification #: PH-0694
Delaware Certification
Florida/TNI Certification #: E87683
Georgia Certification #: C040
Guam Certification
Hawaii Certification
Idaho Certification
Illinois Certification
Indiana Certification
Iowa Certification #: 391
Kansas/TNI Certification #: E-10358
Kentucky Certification #: 90133
Louisiana DHH/TNI Certification #: LA140008
Louisiana DEQ/TNI Certification #: 4086
Maine Certification #: PA00091
Maryland Certification #: 308
Massachusetts Certification #: M-PA1457
Michigan/PADEP Certification
Missouri Certification #: 235

Montana Certification #: Cert 0082
Nebraska Certification #: NE-05-29-14
Nevada Certification #: PA014572015-1
New Hampshire/TNI Certification #: 2976
New Jersey/TNI Certification #: PA 051
New Mexico Certification #: PA01457
New York/TNI Certification #: 10888
North Carolina Certification #: 42706
North Dakota Certification #: R-190
Oregon/TNI Certification #: PA200002
Pennsylvania/TNI Certification #: 65-00282
Puerto Rico Certification #: PA01457
Rhode Island Certification #: 65-00282
South Dakota Certification
Tennessee Certification #: TN2867
Texas/TNI Certification #: T104704188-14-8
Utah/TNI Certification #: PA014572015-5
USDA Soil Permit #: P330-14-00213
Vermont Dept. of Health: ID# VT-0282
Virgin Island/PADEP Certification
Virginia/VELAP Certification #: 460198
Washington Certification #: C868
West Virginia DEP Certification #: 143
West Virginia DHHR Certification #: 9964C
Wisconsin Certification
Wyoming Certification #: 8TMS-L

REPORT OF LABORATORY ANALYSIS

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SAMPLE SUMMARY

Project: Plant Scherer
Pace Project No.: 30187845

Lab ID	Sample ID	Matrix	Date Collected	Date Received
30187845001	SGWA-24	Water	06/23/16 09:25	06/27/16 10:30
30187845002	SGWA-5	Water	06/23/16 14:00	06/27/16 10:30
30187845003	DUP-5	Water	06/23/16 00:01	06/27/16 10:30

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SAMPLE ANALYTE COUNT

Project: Plant Scherer
Pace Project No.: 30187845

Lab ID	Sample ID	Method	Analysts	Analytes Reported
30187845001	SGWA-24	EPA 9315	RMK	1
		EPA 9320	JLW	1
		Total Radium Calculation	CMC	1
30187845002	SGWA-5	EPA 9315	RMK	1
		EPA 9320	JLW	1
		Total Radium Calculation	CMC	1
30187845003	DUP-5	EPA 9315	RMK	1
		EPA 9320	JLW	1
		Total Radium Calculation	CMC	1

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: Plant Scherer

Pace Project No.: 30187845

Parameters		Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
Radium-226		EPA 9315	0.00499 ± 0.0589 (0.145) C:101% T:NA	pCi/L	07/24/16 14:47	13982-63-3	
Radium-228		EPA 9320	0.450 ± 0.354 (0.705) C:87% T:86%	pCi/L	07/25/16 16:52	15262-20-1	
Total Radium		Total Radium Calculation	0.455 ± 0.413 (0.850)	pCi/L	07/26/16 14:41	7440-14-4	

Parameters		Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
Radium-226		EPA 9315	0.0106 ± 0.0693 (0.166) C:95% T:NA	pCi/L	07/24/16 14:47	13982-63-3	
Radium-228		EPA 9320	0.347 ± 0.324 (0.662) C:86% T:85%	pCi/L	07/25/16 16:52	15262-20-1	
Total Radium		Total Radium Calculation	0.358 ± 0.393 (0.828)	pCi/L	07/26/16 14:41	7440-14-4	

Parameters		Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
Radium-226		EPA 9315	0.0420 ± 0.0567 (0.118) C:99% T:NA	pCi/L	07/24/16 14:47	13982-63-3	
Radium-228		EPA 9320	0.244 ± 0.296 (0.626) C:91% T:88%	pCi/L	07/25/16 16:52	15262-20-1	
Total Radium		Total Radium Calculation	0.286 ± 0.353 (0.744)	pCi/L	07/26/16 14:41	7440-14-4	

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL - RADIOCHEMISTRY

Project: Plant Scherer

Pace Project No.: 30187845

QC Batch:	226713	Analysis Method:	EPA 9320
QC Batch Method:	EPA 9320	Analysis Description:	9320 Radium 228
Associated Lab Samples:	30187845001, 30187845002, 30187845003		

METHOD BLANK:	1110829	Matrix:	Water
Associated Lab Samples:	30187845001, 30187845002, 30187845003		

Parameter	Act ± Unc (MDC) Carr Trac	Units	Analyzed	Qualifiers
Radium-228	0.547 ± 0.363 (0.688) C:86% T:81%	pCi/L	07/25/16 12:44	

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

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QUALITY CONTROL - RADIOCHEMISTRY

Project: Plant Scherer

Pace Project No.: 30187845

QC Batch: 226340 Analysis Method: EPA 9315

QC Batch Method: EPA 9315 Analysis Description: 9315 Total Radium

Associated Lab Samples: 30187845001, 30187845002, 30187845003

METHOD BLANK: 1108957 Matrix: Water

Associated Lab Samples: 30187845001, 30187845002, 30187845003

Parameter	Act ± Unc (MDC) Carr Trac	Units	Analyzed	Qualifiers
Radium-226	0.00738 ± 0.0837 (0.222) C:95% T:NA	pCi/L	07/25/16 07:48	

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

REPORT OF LABORATORY ANALYSIS

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QUALIFIERS

Project: Plant Scherer

Pace Project No.: 30187845

DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to dilution of the sample aliquot.

ND - Not Detected at or above adjusted reporting limit.

J - Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit.

MDL - Adjusted Method Detection Limit.

PQL - Practical Quantitation Limit.

RL - Reporting Limit.

S - Surrogate

1,2-Diphenylhydrazine decomposes to and cannot be separated from Azobenzene using Method 8270. The result for each analyte is a combined concentration.

Consistent with EPA guidelines, unrounded data are displayed and have been used to calculate % recovery and RPD values.

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

U - Indicates the compound was analyzed for, but not detected.

N-Nitrosodiphenylamine decomposes and cannot be separated from Diphenylamine using Method 8270. The result reported for each analyte is a combined concentration.

Act - Activity

Unc - Uncertainty: SDWA = 1.96 sigma count uncertainty, all other matrices = Expanded Uncertainty (95% confidence interval).

Gamma Spec = Expanded Uncertainty (95.4% Confidence Interval)

(MDC) - Minimum Detectable Concentration

Trac - Tracer Recovery (%)

Carr - Carrier Recovery (%)

Pace Analytical is TNI accredited. Contact your Pace PM for the current list of accredited analytes.

TNI - The NELAC Institute.

REPORT OF LABORATORY ANALYSIS

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WO#: 30187845



ONLY

ANALYSIS REQUEST AND CHAIN OF CUSTODY RECORD

Georgia Power Environmental Laboratory

NELAP Certification #E57554

2480 Maner Road, BIN 39110

Atlanta, Georgia 30339

Phone: (404) 799-2100

Company: 8-530-2100

Company: Southern Company Services

Report To: Joju Abraham

Address: 241 Ralph McGill Blvd SE B10185

Atlanta, GA 30308

404-506-7239

Joju Abraham

Plant Scherer

Special

Instructions: Scherer AP CCR GW

Sample Shipment Date: 6/24/16

Sample Received Date: 6/24/16

Sampled By: Isley Brewer

1² Standard Turnaround Time

of Business Days (Rush)
(Must be cleared through Env. Lab. Prior to shipment)

[Signature]
Signature

Authorization to subcontract analysis will be assumed acceptable by customer unless stated otherwise.

PRESERVATIVE ²⁰	
HNO3	N
ANALYSIS REQUESTED ²¹	

Sample Type	Matrix	No. of Containers	EPA 6020 & EPA 7470	Metals app. III & IV	CI, F, SO4 EPA 300	TDS SM2540C	Radium 226/228	SW-846 9315 & 9320
G	GW	3	X	X	X	X	X	X
G	GW	3	X	X	X	X	X	X
G	GW	3	X	X	X	X	X	X

LAB USE ONLY ¹³ LAB ID	Sample Number ¹⁴	Collection ¹⁵		Sample Description ¹⁶	Sample Type	Matrix	No. of Containers
		Date	Time				
	SGWA-24	6/23/16	0925		G	GW	3
	SGWA-5	6/23/16	1400		G	GW	3
	DUP-5	6/23/16	-		G	GW	3

LAB USE ONLY ²⁵ Comments	
	001
	002
	003

LAB USE ONLY: Sample Receipt Information²⁸

Relinquished by: ²⁶	Date/Time
Received by: ²⁷	Date/Time
Relinquished by:	Date/Time
Received by:	Date/Time

6/27/16 1030

Sample Condition Upon Receipt Pittsburgh



30187845

Client Name: GA Power

Project # _____

Courier: Fed Ex UPS USPS Client Commercial Pace Other _____

Tracking #: 6812 5097 2714 | 6812 5097 2703

Custody Seal on Cooler/Box Present: yes no Seals intact: yes no

Thermometer Used N/A Type of Ice: Wet Blue None

Cooler Temperature Observed Temp N/A °C Correction Factor: N/A °C Final Temp: N/A °C

Temp should be above freezing to 6°C

Date and Initials of person examining contents: RTE 6/27/16

Comments:

	Yes	No	N/A	
Chain of Custody Present:	X			1.
Chain of Custody Filled Out:	X			2.
Chain of Custody Relinquished:	X			3.
Sampler Name & Signature on COC:	X			4.
Sample Labels match COC: -Includes date/time/ID/Analysis Matrix: <u>WT</u>	X			5.
Samples Arrived within Hold Time:	X			6.
Short Hold Time Analysis (<72hr remaining):		X		7.
Rush Turn Around Time Requested:		X		8.
Sufficient Volume:	X			9.
Correct Containers Used: -Pace Containers Used:	X X			10.
Containers Intact:	X			11.
Filtered volume received for Dissolved tests			X	12.
All containers needing preservation have been checked.	X			13. <u>PH<2</u>
All containers needing preservation are found to be in compliance with EPA recommendation.	X			
exceptions: VOA, coliform, TOC, O&G, Phenolics				Initial when completed <u>6/27/16</u> Date/time of preservation <u>RTE</u>
				Lot # of added preservative
Headspace in VOA Vials (>6mm):			X	14.
Trip Blank Present:			X	15.
Trip Blank Custody Seals Present			X	

Client Notification/ Resolution:

Person Contacted: _____ Date/Time: _____ Contacted By: _____

Comments/ Resolution: _____

Note: Whenever there is a discrepancy affecting North Carolina compliance samples, a copy of this form will be sent to the North Carolina DEHNR Certification Office (i.e. out of hold, incorrect preservative, out of temp, incorrect containers)

Quality Control Sample Performance Assessment



Analyst Must Manually Enter All Fields Highlighted in Yellow.

Test: Ra-226
Analyst: RMK
Date: 7/20/2016
Worklist: 30360
Matrix: DW

Method Blank Assessment

MB Sample ID: 1108857
MB concentration: 0.007
M/B Counting Uncertainty: 0.084
MB MDC: 0.222
MB Numerical Performance Indicator: 0.17
MB Status vs Numerical Indicator: N/A
MB Status vs MDC: Pass

Laboratory Control Sample Assessment

LCSD (Y or N)?	Y
LCSD30360	7/25/2016
Count Date:	16-001
Spike I.D.:	47.784
Spike Concentration (pCi/mL):	0.10
Volume Used (mL):	0.503
Aliquot Volume (L, g, F):	9.491
Target Conc. (pCi/L, g, F):	0.446
Uncertainty (Calculated):	7.338
Result (pCi/L, g, F):	0.645
LCSD Counting Uncertainty (pCi/L, g, F):	-4.51
Numerical Performance Indicator:	81.00%
Percent Recovery:	77.47%
Status vs Numerical Indicator:	N/A
Status vs Recovery:	Pass

Duplicate Sample Assessment

Sample I.D.:	LCSD30360
Duplicate Sample I.D.:	LCSD30360
Sample Result (pCi/L, g, F):	7.688
Sample Duplicate Result (pCi/L, g, F):	0.645
Sample Result Counting Uncertainty (pCi/L, g, F):	7.338
Sample Duplicate Result Counting Uncertainty (pCi/L, g, F):	0.621
Ave sample and/or duplicate results below MDC?	NO
Duplicate Numerical Performance Indicator:	0.766
Duplicate Status vs Numerical Indicator:	N/A
Duplicate Status vs RPD:	Pass

Enter Duplicate sample IDs if other than LCS/LCSD in the space below.

Evaluation of duplicate precision is not applicable if either the sample or duplicate results are below the MDC.

Comments:

Sample Matrix Spike Control Assessment

Sample Collection Date:
Sample I.D.:
Sample MS I.D.:
Sample MSD I.D.:

MS/MSD Decay Corrected Spike Concentration (pCi/mL):
Spike Volume Used in MS (mL):
MS Aliquot (L, g, F):
MS Target Conc. (pCi/L, g, F):
MSD Aliquot (L, g, F):
MSD Target Conc. (pCi/L, g, F):
Spike uncertainty (calculated):

Sample Result Counting Uncertainty (pCi/L, g, F):
Sample Matrix Spike Result:
Matrix Spike Result Counting Uncertainty (pCi/L, g, F):
Sample Matrix Spike Duplicate Result:
Matrix Spike Duplicate Result Counting Uncertainty (pCi/L, g, F):
MS Numerical Performance Indicator:
MSD Numerical Performance Indicator:
MS Percent Recovery:
MS Status vs Numerical Indicator:
MSD Status vs Numerical Indicator:
MS Status vs Recovery:
MSD Status vs Recovery:

Matrix Spike/Matrix Spike Duplicate Sample Assessment

Sample I.D.:
Sample MS I.D.:
Sample MSD I.D.:

Matrix Spike Result Counting Uncertainty (pCi/L, g, F):
Sample Matrix Spike Duplicate Result:
Matrix Spike Duplicate Result Counting Uncertainty (pCi/L, g, F):
Duplicate Numerical Performance Indicator:
MS/MSD Duplicate RPD:
MS/MSD Duplicate Status vs Numerical Indicator:
MS/MSD Duplicate Status vs RPD:

Quality Control Sample Performance Assessment

Analyst Must Manually Enter All Fields Highlighted in Yellow.

Test: Ra-228
Analyst: JLW
Date: 7/21/2016
Worklist: 30408
Matrix: DW



Method Blank Assessment	
MB Sample ID	1110829
MB Concentration:	0.547
MB Counting Uncertainty:	0.349
MB MDC:	0.688
MB Numerical Performance Indicator:	3.07
MB Status vs Numerical Indicator:	N/A
MB Status vs. MDC:	Pass

Laboratory Control Sample Assessment	
Count Date:	7/25/2016
Spike I.D.:	16-025
Spike Concentration (pCi/mL):	26.111
Volume Used (mL):	0.20
Aliquot Volume (L, g, F):	0.808
Target Conc. (pCi/L, g, F):	6.462
Uncertainty (Calculated):	0.469
Result (pCi/L, g, F):	4.917
LCS/LCSD Counting Uncertainty (pCi/L, g, F):	0.644
Numerical Performance Indicator:	-4.94
Percent Recovery:	70.18%
Status vs Numerical Indicator:	N/A
Status vs Recovery:	Pass

Duplicate Sample Assessment	
Sample I.D.:	LCS30408
Duplicate Sample I.D.:	LCS30408
Sample Result (pCi/L, g, F):	4.536
Sample Duplicate Result (pCi/L, g, F):	0.607
Sample Duplicate Result Counting Uncertainty (pCi/L, g, F):	4.917
Sample Duplicate Result Counting Uncertainty (pCi/L, g, F):	0.644
Are sample and/or duplicate results below MDC?	NO
Duplicate Numerical Performance Indicator:	-0.844
Duplicate RPD:	8.05%
Duplicate Status vs Numerical Indicator:	N/A
Duplicate Status vs RPD:	Pass

Evaluation of duplicate precision is not applicable if either the sample or duplicate results are below the MDC.

Comments:

Sample Matrix Spike Control Assessment	
Sample Collection Date:	
Sample I.D.:	
Sample MS I.D.:	
Sample MSD I.D.:	
Spike I.D.:	
MS/MSD Decay Corrected Spike Concentration (pCi/mL):	
Spike Volume Used in MS (mL):	
Spike Volume Used in MSD (mL):	
MS Aliquot (L, g, F):	
MS Target Conc. (pCi/L, g, F):	
MSD Aliquot (L, g, F):	
MSD Target Conc. (pCi/L, g, F):	
Spike uncertainty (calculated):	
Sample Result:	
Sample Result Counting Uncertainty (pCi/L, g, F):	
Sample Matrix Spike Result:	
Sample Matrix Spike Duplicate Result:	
Sample Matrix Spike Duplicate Result Counting Uncertainty (pCi/L, g, F):	
MS Numerical Performance Indicator:	
MSD Numerical Performance Indicator:	
MS Percent Recovery:	
MSD Percent Recovery:	
MS Status vs Numerical Indicator:	
MSD Status vs Numerical Indicator:	
MS Status vs Recovery:	
MSD Status vs Recovery:	

Matrix Spike/Matrix Spike Duplicate Sample Assessment	
Sample I.D.:	
Sample MS I.D.:	
Sample MSD I.D.:	
Sample Matrix Spike Result:	
Sample Matrix Spike Duplicate Result:	
Sample Matrix Spike Duplicate Result Counting Uncertainty (pCi/L, g, F):	
Sample Matrix Spike Duplicate Result Counting Uncertainty (pCi/L, g, F):	
Duplicate Numerical Performance Indicator:	
MS/MSD Duplicate RPD:	
MS/MSD Duplicate Status vs Numerical Indicator:	
MS/MSD Duplicate Status vs RPD:	

August 08, 2016

Maria Padilla
GA Power
2480 Maner Rd
Atlanta, GA 30339

RE: Project: Plant Scherer
Pace Project No.: 30188169

Dear Maria Padilla:

Enclosed are the analytical results for sample(s) received by the laboratory on June 29, 2016. The results relate only to the samples included in this report. Results reported herein conform to the most current TNI standards and the laboratory's Quality Assurance Manual, where applicable, unless otherwise noted in the body of the report.

If you have any questions concerning this report, please feel free to contact me.

Sincerely,



Jacquelyn Collins
jacquelyn.collins@pacelabs.com
Project Manager

Enclosures



REPORT OF LABORATORY ANALYSIS

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CERTIFICATIONS

Project: Plant Scherer
Pace Project No.: 30188169

Pennsylvania Certification IDs

1638 Roseytown Rd Suites 2,3&4, Greensburg, PA 15601
L-A-B DOD-ELAP Accreditation #: L2417
Alabama Certification #: 41590
Arizona Certification #: AZ0734
Arkansas Certification
California Certification #: 04222CA
Colorado Certification
Connecticut Certification #: PH-0694
Delaware Certification
Florida/TNI Certification #: E87683
Georgia Certification #: C040
Guam Certification
Hawaii Certification
Idaho Certification
Illinois Certification
Indiana Certification
Iowa Certification #: 391
Kansas/TNI Certification #: E-10358
Kentucky Certification #: 90133
Louisiana DHH/TNI Certification #: LA140008
Louisiana DEQ/TNI Certification #: 4086
Maine Certification #: PA00091
Maryland Certification #: 308
Massachusetts Certification #: M-PA1457
Michigan/PADEP Certification
Missouri Certification #: 235

Montana Certification #: Cert 0082
Nebraska Certification #: NE-05-29-14
Nevada Certification #: PA014572015-1
New Hampshire/TNI Certification #: 2976
New Jersey/TNI Certification #: PA 051
New Mexico Certification #: PA01457
New York/TNI Certification #: 10888
North Carolina Certification #: 42706
North Dakota Certification #: R-190
Oregon/TNI Certification #: PA200002
Pennsylvania/TNI Certification #: 65-00282
Puerto Rico Certification #: PA01457
Rhode Island Certification #: 65-00282
South Dakota Certification
Tennessee Certification #: TN2867
Texas/TNI Certification #: T104704188-14-8
Utah/TNI Certification #: PA014572015-5
USDA Soil Permit #: P330-14-00213
Vermont Dept. of Health: ID# VT-0282
Virgin Island/PADEP Certification
Virginia/VELAP Certification #: 460198
Washington Certification #: C868
West Virginia DEP Certification #: 143
West Virginia DHHR Certification #: 9964C
Wisconsin Certification
Wyoming Certification #: 8TMS-L

REPORT OF LABORATORY ANALYSIS

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SAMPLE SUMMARY

Project: Plant Scherer
Pace Project No.: 30188169

Lab ID	Sample ID	Matrix	Date Collected	Date Received
30188169001	SGWA-25	Water	06/27/16 10:40	06/29/16 11:00
30188169002	EQB-5	Water	06/27/16 10:51	06/29/16 11:00
30188169003	SGWC-7	Water	06/27/16 14:52	06/29/16 11:00

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SAMPLE ANALYTE COUNT

Project: Plant Scherer
Pace Project No.: 30188169

Lab ID	Sample ID	Method	Analysts	Analytes Reported
30188169001	SGWA-25	EPA 9315	JAL	1
		EPA 9320	JLW	1
		Total Radium Calculation	RMK	1
30188169002	EQB-5	EPA 9315	JAL	1
		EPA 9320	JLW	1
		Total Radium Calculation	RMK	1
30188169003	SGWC-7	EPA 9315	JAL	1
		EPA 9320	JLW	1
		Total Radium Calculation	RMK	1

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: Plant Scherer

Pace Project No.: 30188169

Parameters		Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
Sample: SGWA-25		Lab ID: 30188169001	Collected: 06/27/16 10:40	Received: 06/29/16 11:00	Matrix: Water		
PWS:		Site ID:	Sample Type:				
Radium-226	EPA 9315	0.0871 ± 0.0794 (0.140)	pCi/L	07/31/16 06:59	13982-63-3		
Radium-228	EPA 9320	0.580 ± 0.374 (0.699)	pCi/L	08/08/16 12:00	15262-20-1		
Total Radium	Total Radium Calculation	0.667 ± 0.453 (0.839)	pCi/L	08/08/16 17:39	7440-14-4		

Parameters		Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
Sample: EQB-5		Lab ID: 30188169002	Collected: 06/27/16 10:51	Received: 06/29/16 11:00	Matrix: Water		
PWS:		Site ID:	Sample Type:				
Radium-226	EPA 9315	0.0453 ± 0.0609 (0.127)	pCi/L	07/31/16 06:59	13982-63-3		
Radium-228	EPA 9320	0.555 ± 0.326 (0.587)	pCi/L	08/08/16 12:00	15262-20-1		
Total Radium	Total Radium Calculation	0.600 ± 0.387 (0.714)	pCi/L	08/08/16 17:39	7440-14-4		

Parameters		Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
Sample: SGWC-7		Lab ID: 30188169003	Collected: 06/27/16 14:52	Received: 06/29/16 11:00	Matrix: Water		
PWS:		Site ID:	Sample Type:				
Radium-226	EPA 9315	0.0586 ± 0.0732 (0.150)	pCi/L	07/31/16 06:59	13982-63-3		
Radium-228	EPA 9320	0.522 ± 0.368 (0.705)	pCi/L	08/08/16 12:00	15262-20-1		
Total Radium	Total Radium Calculation	0.581 ± 0.441 (0.855)	pCi/L	08/08/16 17:39	7440-14-4		

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QUALITY CONTROL - RADIOCHEMISTRY

Project: Plant Scherer

Pace Project No.: 30188169

QC Batch:	227094	Analysis Method:	EPA 9315
QC Batch Method:	EPA 9315	Analysis Description:	9315 Total Radium
Associated Lab Samples:	30188169001, 30188169002, 30188169003		

METHOD BLANK:	1112538	Matrix:	Water
Associated Lab Samples:	30188169001, 30188169002, 30188169003		

Parameter	Act ± Unc (MDC) Carr Trac	Units	Analyzed	Qualifiers
Radium-226	-0.0383 ± 0.0434 (0.181) C:69% T:NA	pCi/L	07/31/16 06:59	

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

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QUALITY CONTROL - RADIOCHEMISTRY

Project: Plant Scherer

Pace Project No.: 30188169

QC Batch: 228621 Analysis Method: EPA 9320

QC Batch Method: EPA 9320 Analysis Description: 9320 Radium 228

Associated Lab Samples: 30188169001, 30188169002, 30188169003

METHOD BLANK: 1119865 Matrix: Water

Associated Lab Samples: 30188169001, 30188169002, 30188169003

Parameter	Act ± Unc (MDC) Carr Trac	Units	Analyzed	Qualifiers
Radium-228	0.599 ± 0.344 (0.624) C:74% T:94%	pCi/L	08/08/16 12:00	

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

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QUALIFIERS

Project: Plant Scherer

Pace Project No.: 30188169

DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to dilution of the sample aliquot.

ND - Not Detected at or above adjusted reporting limit.

J - Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit.

MDL - Adjusted Method Detection Limit.

PQL - Practical Quantitation Limit.

RL - Reporting Limit.

S - Surrogate

1,2-Diphenylhydrazine decomposes to and cannot be separated from Azobenzene using Method 8270. The result for each analyte is a combined concentration.

Consistent with EPA guidelines, unrounded data are displayed and have been used to calculate % recovery and RPD values.

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

U - Indicates the compound was analyzed for, but not detected.

N-Nitrosodiphenylamine decomposes and cannot be separated from Diphenylamine using Method 8270. The result reported for each analyte is a combined concentration.

Act - Activity

Unc - Uncertainty: SDWA = 1.96 sigma count uncertainty, all other matrices = Expanded Uncertainty (95% confidence interval).

Gamma Spec = Expanded Uncertainty (95.4% Confidence Interval)

(MDC) - Minimum Detectable Concentration

Trac - Tracer Recovery (%)

Carr - Carrier Recovery (%)

Pace Analytical is TNI accredited. Contact your Pace PM for the current list of accredited analytes.

TNI - The NELAC Institute.

REPORT OF LABORATORY ANALYSIS

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WO#: 30188169



ANALYSIS REQUEST AND CHAIN OF CUSTODY RECORD

Georgia Power Environmental Laboratory
NELAP Certification #E57554
2480 Maner Road, BIN 39110
Atlanta, Georgia 30339
Phone: (404) 799-2100
Company: 8-530-2100

Southern Company Services
Report To: Joju Abraham
Address: 241 Ralph McGill Blvd SE B10185
Atlanta, GA 30308
Phone/Fax: 404-506-7239
Contact: Joju Abraham
Project Location: Plant Scherer
Account Number:
Special Instructions: Scherer AP CCR GW

Sample Shipment Date: 6/28/16
Sample Received Date:
Sampled By: MIRANDA STAFFOR

11 Page 1 of 1

X 12 Standard Turnaround Time

of Business Days (Rush)
(Must be cleared through Env. Lab. Prior to shipment)

Signature: Miranda Staffor

Authorization to subcontract analysis will be assumed acceptable by customer unless stated otherwise.

Table with columns: HNO3, Ice, HNO3, ANALYSIS REQUESTED, PRESERVATIVE, Sample Type Key, Matrix Key, Preservative Key. Includes analysis requests for Metals, TDS, and Radium.

Table with columns: LAB USE ONLY, LAB ID, Sample Number, Collection Date/Time, Sample Description, Sample Type, Matrix, No. of Containers. Contains three sample entries: SGWA-25, EQB-5, and SGWC-7.

Relinquished by: [Signature] Date/Time: 6/28/16 07:27
Received by: [Signature] Date/Time: 6/28/16 08:07
Relinquished by: [Signature] Date/Time: 6/28/16 08:25
Received by: [Signature] Date/Time: 6/28/16 @ 8:30

Received by: Ben Munnick 6-29-16 11:00 AM 6-29-16

Sample Condition Upon Receipt Pittsburgh



Client Name: GA Power

Project # 30188169

Courier: Fed Ex UPS USPS Client Commercial Pace Other _____

Tracking #: 681250972931 68125097 3228

Custody Seal on Cooler/Box Present: ^{BM}yes no Seals intact: yes no

Thermometer Used NIA Type of Ice: Wet Blue None

Cooler Temperature Observed Temp _____ °C Correction Factor: _____ °C Final Temp: _____ °C

Temp should be above freezing to 6°C

Date and Initials of person examining contents: NTV 6-28-16

Comments:

	Yes	No	N/A	
Chain of Custody Present:	X			1.
Chain of Custody Filled Out:	X			2.
Chain of Custody Relinquished:	X			3.
Sampler Name & Signature on COC:		X		4.
Sample Labels match COC:	X			5.
-Includes date/time/ID/Analysis Matrix: <u>WT</u>				
Samples Arrived within Hold Time:	X			6.
Short Hold Time Analysis (<72hr remaining):		X		7.
Rush Turn Around Time Requested:		X		8.
Sufficient Volume:	X			9.
Correct Containers Used:	X			10.
-Pace Containers Used:		X		
Containers Intact:	X			11.
Filtered volume received for Dissolved tests			X	12.
All containers needing preservation have been checked.	X			13.
All containers needing preservation are found to be in compliance with EPA recommendation.	X			
exceptions: VOA, coliform, TOC, O&G, Phenolics				
				Initial when completed <u>NTV</u> Date/time of preservation
				Lot # of added preservative
Headspace in VOA Vials (>6mm):			X	14.
Trip Blank Present:			X	15.
Trip Blank Custody Seals Present			X	

pH < 2

Client Notification/ Resolution:

Person Contacted: _____ Date/Time: _____ Contacted By: _____

Comments/ Resolution: _____

Note: Whenever there is a discrepancy affecting North Carolina compliance samples, a copy of this form will be sent to the North Carolina DEHNR Certification Office (i.e out of hold, incorrect preservative, out of temp, incorrect containers)

Quality Control Sample Performance Assessment

Analyst Must Manually Enter All Fields Highlighted in Yellow.

Test: Ra-226
 Analyst: JAL
 Date: 7/27/2016
 Worklist: 30499
 Matrix: DW



Method Blank Assessment

MB Sample ID: 1112538
 MB Concentration: -0.038
 MB Counting Uncertainty: 0.043
 MB MDC: 0.181
 MB Numerical Performance Indicator: -1.74
 MB Status vs Numerical Indicator: N/A
 MB Status vs MDC: Pass

Laboratory Control Sample Assessment

Count Date:	LCS30499	Y
7/31/2016	7/31/2016	
Spike I.D.:	16-001	16-001
Spike Concentration (pCi/mL):	47.784	47.784
Volume Used (mL):	0.10	0.10
Aliquot Volume (L, g, F):	0.507	0.515
Target Conc. (pCi/L, g, F):	9.430	9.273
Uncertainty (Calculated):	0.444	0.436
Result (pCi/L, g, F):	7.744	7.165
LCS/LCSD Counting Uncertainty (pCi/L, g, F):	0.590	0.535
Numerical Performance Indicator:	-4.48	-5.98
Percent Recovery:	82.12%	77.26%
Status vs Numerical Indicator:	N/A	N/A
Status vs Recovery:	Pass	Pass

Duplicate Sample Assessment

Sample I.D.: LCS30499
 Duplicate Sample I.D.: LCS30499
 Sample Result Counting Uncertainty (pCi/L, g, F): 7.744
 Sample Duplicate Result Counting Uncertainty (pCi/L, g, F): 0.590
 Sample Duplicate Result Counting Uncertainty (pCi/L, g, F): 7.165
 Are sample and/or duplicate results below MDC? NO
 Duplicate Numerical Performance Indicator: 1.424
 Duplicate RPD: 7.77%
 Duplicate Status vs Numerical Indicator: N/A
 Duplicate Status vs RPD: Pass

Evaluation of duplicate precision is not applicable if either the sample or duplicate results are below the MDC.

Comments:

Sample Matrix Spike Control Assessment

Sample Collection Date:
 Sample I.D.:
 Sample MS I.D.:
 Sample MSD I.D.:
 Spike I.D.:
 MS/MSD Decay Corrected Spike Concentration (pCi/mL):
 Spike Volume Used in MS (mL):
 Spike Volume Used in MSD (mL):
 MS Aliquot (L, g, F):
 MS Target Conc. (pCi/L, g, F):
 MSD Aliquot (L, g, F):
 MSD Target Conc. (pCi/L, g, F):
 Spike uncertainty (calculated):
 Sample Result:
 Sample Result Counting Uncertainty (pCi/L, g, F):
 Sample Matrix Spike Result:
 Matrix Spike Result Counting Uncertainty (pCi/L, g, F):
 Sample Matrix Spike Duplicate Result:
 Matrix Spike Duplicate Result Counting Uncertainty (pCi/L, g, F):
 MS Numerical Performance Indicator:
 MSD Numerical Performance Indicator:
 MS Percent Recovery:
 MSD Percent Recovery:
 MS Status vs Numerical Indicator:
 MSD Status vs Numerical Indicator:
 MS Status vs Recovery:
 MSD Status vs Recovery:

Matrix Spike/Matrix Spike Duplicate Sample Assessment

Sample I.D.:
 Sample MS I.D.:
 Sample MSD I.D.:
 Sample Matrix Spike Result:
 Matrix Spike Result Counting Uncertainty (pCi/L, g, F):
 Sample Matrix Spike Duplicate Result:
 Matrix Spike Duplicate Result Counting Uncertainty (pCi/L, g, F):
 Duplicate Numerical Performance Indicator:
 MS/MSD Duplicate RPD:
 MS/MSD Duplicate Status vs Numerical Indicator:
 MS/MSD Duplicate Status vs RPD:

28/8/16

Quality Control Sample Performance Assessment

Face Analytical™
www.faceanalytical.com

Analyst Must Manually Enter All Fields Highlighted in Yellow.

Test: Ra-228
Analyst: JLW
Date: 7/22/2016
Worklist: 30436
Matrix: DW

Method Blank Assessment	
MB Sample ID	1111749
MB concentration:	0.746
MB Counting Uncertainty:	0.339
MB MDC:	0.611
MB Numerical Performance Indicator:	4.32
MB Status vs Numerical Indicator:	N/A
MB Status vs. MDC:	See Comment*

Laboratory Control Sample Assessment	
Count Date:	7/28/2016
Spike I.D.:	16-025
Spike Concentration (pCi/mL):	26.085
Volume Used (mL):	0.20
Aliquot Volume (L, g, F):	0.804
Target Conc. (pCi/L, g, F):	6.490
Uncertainty (Calculated):	0.467
Result (pCi/L, g, F):	7.884
LCS/LCSD Counting Uncertainty (pCi/L, g, F):	3.900
Numerical Performance Indicator:	0.70
Percent Recovery:	121.48%
Status vs Numerical Indicator:	N/A
Status vs Recovery:	Pass

Duplicate Sample Assessment	
Sample I.D.:	LCS30436
Duplicate Sample I.D.:	LCS30436
Sample Result (pCi/L, g, F):	7.884
Sample Result Counting Uncertainty (pCi/L, g, F):	3.900
Sample Duplicate Result (pCi/L, g, F):	4.983
Sample Duplicate Result Counting Uncertainty (pCi/L, g, F):	3.250
Are sample and/or duplicate results below MDC?*	NO
Duplicate Numerical Performance Indicator:	1.120
Duplicate RPD:	45.10%
Duplicate Status vs Numerical Indicator:	N/A
Duplicate Status vs RPD:	Fail***

Enter Duplicate sample IDs if other than LCS/LCSD in the space below.

*** Evaluation of duplicate precision is not applicable if either the sample or duplicate results are below the MDC.

Comments:

*The method blank result is below the reporting limit for this analysis and is acceptable.

**Batch must be re-prepped due to unacceptable precision

8/8/16

* Numerical Indicator 'samples' is acceptable w/ samples. 1 of 1

Sample Matrix Spike Control Assessment	
Sample Collection Date:	
Sample I.D.:	
Sample MS I.D.:	
Sample MSD I.D.:	
Spike I.D.:	
MS/MSD Decay Corrected Spike Concentration (pCi/mL):	
Spike Volume Used in MS (mL):	
Spike Volume Used in MSD (mL):	
MS Aliquot (L, g, F):	
MS Target Conc. (pCi/L, g, F):	
MSD Aliquot (L, g, F):	
MSD Target Conc. (pCi/L, g, F):	
Spike uncertainty (calculated):	
Sample Result Counting Uncertainty (pCi/L, g, F):	
Sample Matrix Spike Result:	
Matrix Spike Result Counting Uncertainty (pCi/L, g, F):	
Sample Matrix Spike Duplicate Result:	
Matrix Spike Duplicate Result Counting Uncertainty (pCi/L, g, F):	
MS Numerical Performance Indicator:	
MSD Numerical Performance Indicator:	
MS Percent Recovery:	
MSD Percent Recovery:	
MS Status vs Numerical Indicator:	
MSD Status vs Numerical Indicator:	
MS Status vs Recovery:	
MSD Status vs Recovery:	

Matrix Spike/Matrix Spike Duplicate Sample Assessment	
Sample I.D.:	
Sample MS I.D.:	
Sample MSD I.D.:	
Matrix Spike Result Counting Uncertainty (pCi/L, g, F):	
Sample Matrix Spike Duplicate Result:	
Matrix Spike Duplicate Result Counting Uncertainty (pCi/L, g, F):	
Duplicate Numerical Performance Indicator:	
MS/MSD Duplicate RPD:	
MS/MSD Duplicate Status vs Numerical Indicator:	
MS/MSD Duplicate Status vs RPD:	

Product Name: Low-Flow System

Date: 2016-06-23 10:20:57

Project Information:

Operator Name M Steffler
 Company Name AECOM
 Project Name Plant Scherer
 Site Name SGWA-1
 Latitude 33° 4' 35.6"
 Longitude 83° 49' 45.8"
 Sonde SN 449471
 Turbidity Make/Model LaMotte 2020we

Pump Information:

Pump Model/Type bladder
 Tubing Type polyethylene
 Tubing Diameter .17 in
 Tubing Length 55 ft

Pump placement from TOC 50 ft

Well Information:

Well ID SGWA-1
 Well diameter 2 in
 Well Total Depth 55.37 ft
 Screen Length 10 ft
 Depth to Water 36.48 ft

Pumping Information:

Final Pumping Rate 150 mL/min
 Total System Volume 0.4354883 L
 Calculated Sample Rate 300 sec
 Stabilization Drawdown 2.64 in
 Total Volume Pumped 16.5 L

Low-Flow Sampling Stabilization Summary

Stabilization	Time	Elapsed	Temp C	pH	SpCond μ S/cm	Turb NTU	DTW ft	RDO mg/L	ORP mV
			+/- 0.5	+/- 0.1	+/- 5%	+/- 5		+/- 0.2	+/- 10
Last 5	09:57:42	5401.75	19.89	5.50	50.77	5.26	36.70	0.13	108.93
Last 5	10:02:42	5701.75	19.77	5.50	51.47	4.52	36.70	0.13	109.26
Last 5	10:07:42	6001.75	19.78	5.51	51.33	4.96	36.70	0.14	110.45
Last 5	10:12:42	6301.80	19.77	5.50	51.46	3.92	36.70	0.14	112.44
Last 5	10:17:42	6601.80	19.91	5.50	51.21	2.91	36.70	0.14	113.21
Variance 0			0.01	0.00	-0.14			0.00	1.19
Variance 1			-0.01	-0.00	0.13			0.00	1.99
Variance 2			0.13	0.00	-0.25			0.00	0.77

Notes

Clear. 80 degrees F

Grab Samples

SGWA-1
 Sample time 10:24

Product Name: Low-Flow System

Date: 2016-06-23 15:04:02

Project Information:

Operator Name M Steffler
 Company Name AECOM
 Project Name Plant Scherer
 Site Name SGWA-2
 Latitude 0° 0' 0"
 Longitude 0° 0' 0"
 Sonde SN 449471
 Turbidity Make/Model LaMotte 2020we

Pump Information:

Pump Model/Type bladder
 Tubing Type polyethylene
 Tubing Diameter .17 in
 Tubing Length 97 ft

Pump placement from TOC 92 ft

Well Information:

Well ID SGWA-2
 Well diameter 2 in
 Well Total Depth 98.04 ft
 Screen Length 10 ft
 Depth to Water 36.41 ft

Pumping Information:

Final Pumping Rate 150 mL/min
 Total System Volume 0.622952 L
 Calculated Sample Rate 300 sec
 Stabilization Drawdown 0.8 in
 Total Volume Pumped 15.75 L

Low-Flow Sampling Stabilization Summary

Stabilization	Time	Elapsed	Temp C	pH	SpCond μ S/cm Turb NTU	DTW ft	RDO mg/L	ORP mV
			+/- 0.5	+/- 0.1	+/- 5%		+/- 0.2	+/- 10
Last 5	14:40:51	5099.88	22.77	6.82	124.80	37.39	4.55	134.44
Last 5	14:45:51	5399.88	22.77	6.82	124.24	37.39	4.52	136.31
Last 5	14:50:51	5699.89	22.34	6.82	124.87	37.35	4.55	136.34
Last 5	14:55:51	5999.88	22.45	6.82	125.75	37.34	4.54	135.63
Last 5	15:00:52	6300.89	22.27	6.82	125.47	37.34	4.53	135.78
Variance 0			-0.43	0.00	0.62		0.03	0.03
Variance 1			0.11	-0.00	0.89		-0.01	-0.71
Variance 2			-0.18	0.00	-0.28		-0.01	0.15

Notes

Clear. Sunny. 87 F. Slight breeze.

Grab Samples

SGWA-2
 Sample time 1505

Product Name: Low-Flow System
 Date: 2016-06-24 09:53:46

Project Information:

Operator Name Charles Watson
 Company Name AECOM
 Project Name Plant Scherer
 Site Name SGWA-3
 Latitude 33° 4' 45.42"
 Longitude -83° -49' -52.87"
 Sonde SN 449474
 Turbidity Make/Model Lamotte 2020we

Pump Information:

Pump Model/Type bladder
 Tubing Type Poly
 Tubing Diameter 0.17 in
 Tubing Length 55 ft
 Pump placement from TOC 46.89 ft

Well Information:

Well ID SGWA-3
 Well diameter 2 in
 Well Total Depth 52.22 ft
 Screen Length 10 ft
 Depth to Water 31.1 ft

Pumping Information:

Final Pumping Rate 100 mL/min
 Total System Volume 0.4354883 L
 Calculated Sample Rate 300 sec
 Stabilization Drawdown 49.44 in
 Total Volume Pumped 8 L

Low-Flow Sampling Stabilization Summary

Stabilization	Time	Elapsed	Temp C	pH	SpCond μ S/cm Turb NTU	DTW ft	RDO mg/L	ORP mV
			+/- 0.5	+/- 0.1	+/- 5%		+/- 0.2	+/- 20
Last 5	09:26:35	2700.98	20.43	5.77	96.61	35.18	2.53	147.82
Last 5	09:31:35	3000.98	20.26	5.79	98.28	35.18	2.49	146.21
Last 5	09:36:35	3300.99	20.19	5.78	95.75	35.22	2.73	145.73
Last 5	09:41:35	3600.98	20.30	5.78	98.84	35.22	2.71	147.98
Last 5	09:46:35	3900.98	20.28	5.78	97.92	35.22	2.55	146.43
Variance 0			-0.07	-0.01	-2.53		0.24	-0.48
Variance 1			0.12	-0.00	3.09		-0.02	2.25
Variance 2			-0.03	-0.00	-0.92		-0.16	-1.55

Notes

Cloudy. 75F humid. Well site in good condition.
 Rate change at 9:00 from 150 mL/min to 100 mL/min. Sampling started at 09:50.

Grab Samples
 SGWA-3

Sample time 09:50

Product Name: Low-Flow System
 Date: 2016-06-24 09:33:24

Project Information:

Operator Name *WB W. Bowen RH*
 Company Name AECOM
 Project Name Plant Sherer
 Site Name SGWA-4
 Latitude 0° 0' 0"
 Longitude 0° 0' 0"
 Sonde SN 456959
 Turbidity Make/Model LaMotte 2020we

Pump Information:

Pump Model/Type Sample Pro
 Tubing Type PE
 Tubing Diameter 0.17 in
 Tubing Length 70 ft
 Pump placement from TOC 58.7 ft

Well Information:

Well ID SGWA-4
 Well diameter 2 in
 Well Total Depth 63.77 ft
 Screen Length 10 ft
 Depth to Water 46.55 ft

Pumping Information:

Final Pumping Rate 100 mL/min
 Total System Volume 0.5024396 L
 Calculated Sample Rate 300 sec
 Stabilization Drawdown 23.28 in
 Total Volume Pumped 3.55 L

Low-Flow Sampling Stabilization Summary

Stabilization	Time	Elapsed	Temp C	pH	SpCond μ S/cm Turb NTU	DTW ft	RDO mg/L	ORP mV
			+/- 0.5	+/- 0.1	+/- 5%		+/- 0.3	+/- 10
Last 5	09:09:38	600.02	20.35	6.51	186.66	47.89	2.99	87.56
Last 5	09:14:38	900.02	20.33	6.51	185.82	48.10	2.86	93.29
Last 5	09:19:38	1200.02	20.23	6.49	184.51	48.29	2.86	102.33
Last 5	09:24:38	1500.02	20.26	6.49	183.19	48.39	2.83	107.71
Last 5	09:29:38	1800.02	20.35	6.48	182.35	48.49	2.81	110.76
Variance 0			-0.11	-0.01	-1.31		0.00	9.04
Variance 1			0.03	-0.00	-1.32		-0.02	5.38
Variance 2			0.09	-0.01	-0.84		-0.02	3.05

Notes

Collect sample at 09:35.

Grab Samples

Product Name: Low-Flow System
 Date: 2016-06-23 13:57:12

Project Information:

Operator Name: ~~WB~~ *W. Bowen*
 Company Name: AECOM
 Project Name: Plant Scherer
 Site Name: SGWA-5
 Latitude: 0° 0' 0"
 Longitude: 0° 0' 0"
 Sonde SN: 456959
 Turbidity Make/Model: LaMotte 2020we

Pump Information:

Pump Model/Type: Proactive Alexis
 Tubing Type: PE
 Tubing Diameter: 0.17 in
 Tubing Length: 37 ft

Pump placement from TOC: 27 ft

Well Information:

Well ID: SGWA-27
 Well diameter: 2 in
 Well Total Depth: 33.11 ft
 Screen Length: 10 ft
 Depth to Water: 15.11 ft

Pumping Information:

Final Pumping Rate: 140 mL/min
 Total System Volume: 0.2551467 L
 Calculated Sample Rate: 300 sec
 Stabilization Drawdown: 0.48 in
 Total Volume Pumped: 4.48 L

Low-Flow Sampling Stabilization Summary

Stabilization	Time	Elapsed	Temp C	pH	SpCond μ S/cm Turb NTU	DTW ft	RDO mg/L	ORP mV
			+/- 0.5	+/- 0.1	+/- 5%	+/- 10	+/- 0.3	+/- 10
Last 5	13:34:31	600.03	22.18	5.74	61.30	15.61	2.28	147.94
Last 5	13:39:31	900.02	22.16	5.72	60.61	15.61	2.27	142.23
Last 5	13:44:31	1200.02	22.14	5.72	60.38	15.61	2.29	140.20
Last 5	13:49:31	1500.03	22.35	5.72	59.69	15.60	2.25	138.44
Last 5	13:54:31	1800.02	22.29	5.71	59.78	15.59	2.27	138.65
Variance 0			-0.03	-0.00	-0.23		0.02	-2.03
Variance 1			0.21	0.00	-0.69		-0.04	-1.75
Variance 2			-0.06	-0.01	0.09		0.02	0.20

Notes

Sample collected at 14:00

Grab Samples

Product Name: Low-Flow System
 Date: 2016-06-27 11:07:18

Project Information:

Operator Name R. Hilliard
 Company Name AECOM
 Project Name Plant Scherer
 Site Name SGWC-6
 Latitude 33° 5' 4.4"
 Longitude -83° -49' -21"
 Sonde SN 364456
 Turbidity Make/Model LaMotte 2020we

Pump Information:

Pump Model/Type peristaltic
 Tubing Type polyethylene
 Tubing Diameter 0.17 in
 Tubing Length 30 ft
 Pump placement from TOC 23 ft

Well Information:

Well ID SGWC-6
 Well diameter 2 in
 Well Total Depth 28.07 ft
 Screen Length 10 ft
 Depth to Water 13.99 ft

Pumping Information:

Final Pumping Rate 100 mL/min
 Total System Volume 0.2239027 L
 Calculated Sample Rate 300 sec
 Stabilization Drawdown 26.9 in
 Total Volume Pumped 7.75 L

Low-Flow Sampling Stabilization Summary

Stabilization	Time	Elapsed	Temp C	pH	SpCond μ S/cm Turb NTU	DTW ft	RDO mg/L	ORP mV
			+/- 0.5	+/- 0.1	+/- 5%		+/- 0.2	+/- 10
Last 5	10:43:23	2699.99	21.54	6.30	138.82	16.16	0.18	63.31
Last 5	10:48:23	3000.00	21.81	6.30	137.93	16.19	0.18	62.25
Last 5	10:53:23	3299.98	21.69	6.30	139.07	16.23	0.18	61.48
Last 5	10:58:23	3599.99	21.60	6.30	138.35	16.23	0.18	60.05
Last 5	11:03:23	3899.98	21.56	6.30	138.90	16.23	0.18	59.25
Variance 0			-0.12	0.00	1.14		0.00	-0.77
Variance 1			-0.09	-0.00	-0.72		-0.00	-1.43
Variance 2			-0.04	0.00	0.54		0.00	-0.80

Notes

Clear, calm, 75F
 Warming up 80F, slight breeze. incrementally decreased purge rate from 0.15 LPM to 0.1 LPM, to get water level to stabilize.

Grab Samples
 SGWC-6

Sample Time: 11:09

Product Name: Low-Flow System
 Date: 2016-06-27 14:47:49

Project Information:

Operator Name M Steffler
 Company Name AECOM
 Project Name Plant Scherer
 Site Name SGWC-7
 Latitude 0° 0' 0"
 Longitude 0° 0' 0"
 Sonde SN 449471
 Turbidity Make/Model LaMotte 2020we

Pump Information:

Pump Model/Type peristaltic
 Tubing Type polyethylene
 Tubing Diameter 0.17 in
 Tubing Length 38 ft

Pump placement from TOC 32 ft

Well Information:

Well ID SGWC-7
 Well diameter 2 in
 Well Total Depth 37.95 ft
 Screen Length 10 ft
 Depth to Water 12.85 ft

Pumping Information:

Final Pumping Rate 150 mL/min
 Total System Volume 0.2596101 L
 Calculated Sample Rate 300 sec
 Stabilization Drawdown 1.4 in
 Total Volume Pumped 4.5 L

Low-Flow Sampling Stabilization Summary

Stabilization	Time	Elapsed	Temp C	pH	SpCond μ S/cm Turb NTU	DTW ft	RDO mg/L	ORP mV
			+/- 0.5	+/- 0.1	+/- 5%		+/- 0.2	+/- 20
Last 5	14:24:45	600.02	24.06	6.80	471.84	12.96	0.48	-88.54
Last 5	14:29:45	900.01	23.84	6.78	476.25	12.97	0.35	-87.27
Last 5	14:34:45	1200.01	23.89	6.78	472.12	12.97	0.30	-86.03
Last 5	14:39:45	1500.02	23.66	6.76	471.55	12.97	0.29	-83.40
Last 5	14:44:45	1800.01	23.34	6.73	468.46	12.97	0.26	-75.42
Variance 0			0.05	-0.00	-4.14		-0.05	1.24
Variance 1			-0.23	-0.02	-0.56		-0.00	2.63
Variance 2			-0.31	-0.03	-3.10		-0.03	7.98

Notes

Clear. Sunny. 95 F

Grab Samples

SGWC-7
 Sample time 14:52

Product Name: Low-Flow System
 Date: 2016-06-27 14:53:02

Project Information:

Operator Name R. Hilliard
 Company Name AECOM
 Project Name Plant Scherer
 Site Name SGWC-8
 Latitude 33° 5' 11.6"
 Longitude -83° -49' -9.4"
 Sonde SN 364456
 Turbidity Make/Model LaMotte 2020we

Pump Information:

Pump Model/Type peristaltic
 Tubing Type polyethylene
 Tubing Diameter 0.17 in
 Tubing Length 45 ft

Pump placement from TOC 38 ft

Well Information:

Well ID SGWC-8
 Well diameter 2 in
 Well Total Depth 43.20 ft
 Screen Length 10 ft
 Depth to Water 20.74 ft

Pumping Information:

Final Pumping Rate 150 mL/min
 Total System Volume 0.290854 L
 Calculated Sample Rate 300 sec
 Stabilization Drawdown 1.4 in
 Total Volume Pumped 4.85 L

Low-Flow Sampling Stabilization Summary

Stabilization	Time	Elapsed	Temp C	pH	SpCond μ S/cm Turb NTU	DTW ft	RDO mg/L	ORP mV
			+/- 0.5	+/- 0.1	+/- 5%		+/- 0.2	+/- 10
Last 5	14:30:28	900.02	21.88	6.43	703.21	20.86	1.33	182.20
Last 5	14:35:28	1200.02	21.96	6.42	701.09	20.86	1.28	151.96
Last 5	14:40:28	1500.02	21.99	6.42	700.05	20.86	1.26	134.31
Last 5	14:45:28	1800.02	21.86	6.42	698.53	20.86	1.25	123.77
Last 5	14:50:28	2100.02	21.99	6.41	696.50	20.86	1.22	118.48
Variance 0			0.03	-0.01	-1.04		-0.03	-17.65
Variance 1			-0.14	-0.00	-1.52		-0.01	-10.54
Variance 2			0.14	-0.00	-2.02		-0.02	-5.28

Notes

Clear, breezy, 90F

Grab Samples
 SGWC-8

Sample Time: 14:55

Product Name: Low-Flow System
 Date: 2016-06-29 13:37:33

Project Information:

Operator Name M Steffler
 Company Name AECOM
 Project Name Plant Scherer
 Site Name SGWC-9
 Latitude 0° 0' 0"
 Longitude 0° 0' 0"
 Sonde SN 449471
 Turbidity Make/Model LaMotte 2020we

Pump Information:

Pump Model/Type peristaltic
 Tubing Type polyethylene
 Tubing Diameter 0.17 in
 Tubing Length 38 ft

Pump placement from TOC 33 ft

Well Information:

Well ID SGWC-9
 Well diameter 2 in
 Well Total Depth 38.00 ft
 Screen Length 10 ft
 Depth to Water 19.82 ft

Pumping Information:

Final Pumping Rate 100 mL/min
 Total System Volume 0.2596101 L
 Calculated Sample Rate 300 sec
 Stabilization Drawdown 6 in
 Total Volume Pumped 6.75 L

Low-Flow Sampling Stabilization Summary

Stabilization	Time	Elapsed	Temp C	pH	SpCond μ S/cm Turb NTU	DTW ft	RDO mg/L	ORP mV
			+/- 0.5	+/- 0.1	+/- 5%		+/- 0.2	+/- 20
Last 5	13:11:18	1800.06	22.00	6.20	764.60	20.45	0.78	112.31
Last 5	13:16:18	2100.02	21.56	6.20	771.18	20.45	0.72	98.11
Last 5	13:21:17	2399.92	22.17	6.19	777.14	20.32	0.69	89.36
Last 5	13:26:17	2699.91	22.72	6.18	774.29	20.35	0.64	83.10
Last 5	13:31:17	2999.92	22.48	6.18	767.60	20.35	0.60	80.32
Variance 0			0.61	-0.01	5.96		-0.03	-8.74
Variance 1			0.54	-0.01	-2.85		-0.05	-6.26
Variance 2			-0.24	0.00	-6.69		-0.03	-2.78

Notes

Sunny. 90 F.

Grab Samples

SGWC-9
 Sample time 13:45

Product Name: Low-Flow System

Date: 2016-06-28 08:31:36

Project Information:

Operator Name M Steffler
Company Name AECOM
Project Name Plant Scherer
Site Name SGWC-10
Latitude 33° 3' 56.73"
Longitude -83° -48' -23.3"
Sonde SN 449471
Turbidity Make/Model LaMotte 2020we

Pump Information:

Pump Model/Type peristaltic
Tubing Type polyethylene
Tubing Diameter 0.17 in
Tubing Length 32 ft

Pump placement from TOC 27 ft

Well Information:

Well ID SGWC-10
Well diameter 2 in
Well Total Depth 33.10 ft
Screen Length 10 ft
Depth to Water 16.74 ft

Pumping Information:

Final Pumping Rate 100 mL/min
Total System Volume 0.2328295 L
Calculated Sample Rate 300 sec
Stabilization Drawdown 12.36 in
Total Volume Pumped 4.5 L

Low-Flow Sampling Stabilization Summary

Stabilization	Time	Elapsed	Temp C	pH	SpCond μ S/cm Turb NTU	DTW ft	RDO mg/L	ORP mV
Last 5	08:07:28	900.02	+/- 0.5	+/- 0.1	+/- 5		+/- 0.2	+/- 20
Last 5	08:12:28	1200.02	19.97	5.69	118.49	17.93	2.66	179.76
Last 5	08:17:28	1500.02	19.98	5.68	118.60	17.93	2.58	173.23
Last 5	08:22:28	1800.02	20.27	5.68	118.23	17.80	2.57	168.94
Last 5	08:27:28	2100.02	20.31	5.68	117.23	17.78	2.46	164.27
Variance 0			20.35	5.67	116.62	17.77	2.30	161.38
Variance 1			0.29	-0.00	-0.37		-0.01	-4.29
Variance 2			0.04	-0.00	-1.00		-0.11	-4.66
			0.05	-0.01	-0.60		-0.16	-2.90

Notes

Clear. Sunny. 80 F. No breeze.

Grab Samples

SGWC-10
Sample time 08:29

Product Name: Low-Flow System
 Date: 2016-06-28 09:33:30

Project Information:

Operator Name R. Hilliard
 Company Name AECOM
 Project Name Plant Scherer
 Site Name SGWC-11
 Latitude 33° 4' 58.4"
 Longitude -83° -48' -53.7"
 Sonde SN 364456
 Turbidity Make/Model LaMotte 2020we

Pump Information:

Pump Model/Type peristaltic
 Tubing Type polyethylene
 Tubing Diameter 0.17 in
 Tubing Length 45 ft
 Pump placement from TOC 38 ft

Well Information:

Well ID SGWC-11
 Well diameter 2 in
 Well Total Depth 43.46 ft
 Screen Length 10 ft
 Depth to Water 18.41 ft

Pumping Information:

Final Pumping Rate 140 mL/min
 Total System Volume 0.290854 L
 Calculated Sample Rate 300 sec
 Stabilization Drawdown 23.4 in
 Total Volume Pumped 7.6 L

Low-Flow Sampling Stabilization Summary

Stabilization Time	Elapsed Time	Temp C +/- 0.5	pH +/- 0.1	SpCond μ S/cm Turb NTU +/- 5	DTW ft	RDO mg/L +/- 0.2	ORP mV +/- 10
Last 5 09:10:41	2100.01	20.70	5.80	155.89	20.34	0.34	1.26
Last 5 09:15:41	2399.99	20.87	5.80	154.63	20.35	0.48	17.10
Last 5 09:20:41	2699.99	21.10	5.79	152.11	20.35	0.49	49.56
Last 5 09:25:41	2999.99	21.19	5.78	149.65	20.35	0.49	81.57
Last 5 09:30:41	3299.99	21.35	5.77	146.68	20.36	0.46	110.97
Variance 0		0.23	-0.01	-2.52		0.02	32.45
Variance 1		0.09	-0.01	-2.46		-0.01	32.01
Variance 2		0.16	-0.01	-2.97		-0.03	29.40

Notes

Clear, warm, calm. 80F

Grab Samples

SGWC-11
 Sample Time: 09:36
 DUP-6
 QC: duplicate

Product Name: Low-Flow System

Date: 2016-06-28 09:20:47

Project Information:

Operator Name Charles Watson
Company Name AECOM
Project Name Plant Scherer
Site Name SGWC-12
Latitude 33° 4' 58.7"
Longitude -83° -48' -45.71"
Sonde SN 449474
Turbidity Make/Model Lamotte 2020we

Pump Information:

Pump Model/Type peristaltic
Tubing Type Poly
Tubing Diameter 0.17 in
Tubing Length 52 ft

Pump placement from TOC 45 ft

Well Information:

Well ID SGWC-12
Well diameter 2 in
Well Total Depth 50.2 ft
Screen Length 10 ft
Depth to Water 14.41 ft

Pumping Information:

Final Pumping Rate 200 mL/min
Total System Volume 0.322098 L
Calculated Sample Rate 300 sec
Stabilization Drawdown 32.76 in
Total Volume Pumped 10.36 L

Low-Flow Sampling Stabilization Summary

Stabilization Time	Elapsed	Temp C	pH	SpCond μ S/cm Turb NTU	DTW ft	RDO mg/L	ORP mV
Last 5	08:55:46	+/- 0.5	+/- 0.1	+/- 5%		+/- 0.2	+/- 20
Last 5	09:00:46	20.50	6.28	358.67	17.03	0.28	-103.96
Last 5	09:05:46	20.56	6.28	358.63	17.09	0.64	-100.11
Last 5	09:10:46	20.58	6.26	367.26	17.14	0.23	-93.80
Last 5	09:15:46	20.74	6.26	360.05	17.13	0.20	-88.44
Variance 0	3000.94	20.66	6.26	356.39	17.14	0.19	-85.51
Variance 1		0.02	-0.01	8.63		-0.42	6.31
Variance 2		0.16	-0.00	-7.22		-0.03	5.36
		-0.08	-0.00	-3.66		-0.00	2.93

Notes

Sunny 75F. Well pad is loose and will rock back and forth.
No rate changes. Air bubble found and removed from DO sensor at 09:00. Sampling started at 09:18.

Grab Samples
SGWC-12

Sample time 09:18

Product Name: Low-Flow System
 Date: 2016-06-28 11:00:42

Project Information:

Operator Name M Steffler
 Company Name AECOM
 Project Name Plant Scherer
 Site Name SGWC-13
 Latitude 0° 0' 0"
 Longitude 0° 0' 0"
 Sonde SN 449471
 Turbidity Make/Model LaMotte 2020we

Pump Information:

Pump Model/Type peristaltic
 Tubing Type polyethylene
 Tubing Diameter 0.17 in
 Tubing Length 35 ft

Pump placement from TOC 30 ft

Well Information:

Well ID SGWC-13
 Well diameter 2 in
 Well Total Depth 35.00 ft
 Screen Length 10 ft
 Depth to Water 4.28 ft

Pumping Information:

Final Pumping Rate 125 mL/min
 Total System Volume 0.2462198 L
 Calculated Sample Rate 300 sec
 Stabilization Drawdown 10.3 in
 Total Volume Pumped 4.65 L

Low-Flow Sampling Stabilization Summary

Stabilization	Time	Elapsed	Temp C	pH	SpCond μ S/cm Turb NTU	DTW ft	RDO mg/L	ORP mV
			+/- 0.5	+/- 0.1	+/- 5%		+/- 0.2	+/- 20
Last 5	10:37:13	900.02	22.65	6.08	307.37	5.14	0.34	48.32
Last 5	10:42:13	1200.02	22.68	6.08	306.15	5.14	0.30	48.20
Last 5	10:47:13	1500.02	22.69	6.07	307.03	5.14	0.28	47.45
Last 5	10:52:13	1800.02	22.69	6.07	306.61	5.14	0.26	45.17
Last 5	10:57:13	2100.02	23.06	6.07	304.87	5.14	0.24	44.11
Variance 0			0.02	-0.00	0.89		-0.02	-0.74
Variance 1			-0.00	-0.00	-0.42		-0.02	-2.28
Variance 2			0.37	0.00	-1.75		-0.02	-1.06

Notes

Sunny. 85 F. Slight breeze from SW

Grab Samples

SGWC-13
 Sample time 11:05

Product Name: Low-Flow System
 Date: 2016-06-28 13:30:08

Project Information:

Operator Name R. Hilliard
 Company Name AECOM
 Project Name Plant Scherer
 Site Name SGWC-14
 Latitude 33° 4' 52.6"
 Longitude -83° -48' -30.1"
 Sonde SN 364456
 Turbidity Make/Model LaMotte 2020we

Pump Information:

Pump Model/Type peristaltic
 Tubing Type polyethylene
 Tubing Diameter 0.17 in
 Tubing Length 40 ft
 Pump placement from TOC 32 ft

Well Information:

Well ID SGWC-14
 Well diameter 2 in
 Well Total Depth 37.74 ft
 Screen Length 10 ft
 Depth to Water 11.06 ft

Pumping Information:

Final Pumping Rate 200 mL/min
 Total System Volume 0.2685369 L
 Calculated Sample Rate 300 sec
 Stabilization Drawdown 1.1 in
 Total Volume Pumped 12 L

Low-Flow Sampling Stabilization Summary

Stabilization	Time	Elapsed	Temp C	pH	SpCond μ S/cm Turb NTU	DTW ft	RDO mg/L	ORP mV
			+/- 0.5	+/- 0.1	+/- 5%		+/- 0.2	+/- 10
Last 5	13:08:38	2400.01	20.03	5.75	540.29	11.16	0.12	76.71
Last 5	13:13:38	2699.99	20.30	5.77	544.31	11.16	0.12	75.15
Last 5	13:18:38	2999.99	20.36	5.78	539.37	11.16	0.11	75.45
Last 5	13:23:38	3299.99	20.20	5.77	543.72	11.16	0.11	74.98
Last 5	13:28:38	3599.99	20.03	5.77	539.31	11.16	0.11	75.25
Variance 0			0.07	0.00	-4.95		-0.01	0.31
Variance 1			-0.16	-0.00	4.36		0.00	-0.47
Variance 2			-0.17	-0.00	-4.42		-0.01	0.28

Notes

Clear, 92F, light breeze.

Grab Samples

SGWC-14
 Sample Time: 13:32

Product Name: Low-Flow System

Date: 2016-06-28 14:04:37

Project Information:

Operator Name Charles Watson
Company Name AECOM
Project Name Plant Scherer
Site Name SGWC-15
Latitude 33° 4' 44.87"
Longitude -83° -48' -20.89"
Sonde SN 449474
Turbidity Make/Model Lamotte 2020we

Pump Information:

Pump Model/Type Bladder
Tubing Type Poly
Tubing Diameter 0.17 in
Tubing Length 50 ft

Pump placement from TOC 43.1 ft

Well Information:

Well ID SGWC-15
Well diameter 2 in
Well Total Depth 48.43 ft
Screen Length 10 ft
Depth to Water 29.00 ft

Pumping Information:

Final Pumping Rate 200 mL/min
Total System Volume 0.4131711 L
Calculated Sample Rate 300 sec
Stabilization Drawdown 1.32 in
Total Volume Pumped 15.5 L

Low-Flow Sampling Stabilization Summary

Stabilization	Time	Elapsed	Temp C	pH	SpCond μ S/cm Turb NTU	DTW ft	RDO mg/L	ORP mV
			+/- 0.5	+/- 0.1	+/- 5%		+/- 0.2	+/- 20
Last 5	13:33:38	3300.84	19.99	4.69	549.75	29.11	0.30	417.55
Last 5	13:38:38	3600.84	19.99	4.69	552.16	29.11	0.30	434.32
Last 5	13:43:38	3900.84	20.22	4.69	551.82	29.11	0.30	444.21
Last 5	13:48:38	4200.84	19.90	4.69	551.09	29.11	0.29	450.74
Last 5	13:53:38	4500.73	19.90	4.69	551.43	29.11	0.29	454.43
Variance 0			0.22	-0.00	-0.34		0.00	9.89
Variance 1			-0.32	0.00	-0.73		-0.01	6.52
Variance 2			-0.00	0.00	0.34		-0.00	3.69

Notes

Partly cloudy with a lite breeze, 90F. Well site in good condition.
No rate changes. Sampling started at 13:55. Equipment blank 6 taken at 14:45.

Grab Samples

SGWC-15
Sample time 13:55
EQB-6
Equipment blank 6 @ 14:45

Product Name: Low-Flow System

Date: 2016-06-28 13:40:33

Project Information:

Operator Name M Steffler
 Company Name AECOM
 Project Name Plant Scherer
 Site Name SGWC-16
 Latitude 33° 3' 57.31"
 Longitude -83° -48' -26.87"
 Sonde SN 449471
 Turbidity Make/Model LaMotte 2020we

Pump Information:

Pump Model/Type peristaltic
 Tubing Type polyethylene
 Tubing Diameter 0.17 in
 Tubing Length 43 ft

Pump placement from TOC 38 ft

Well Information:

Well ID SGWC-16
 Well diameter 2 in
 Well Total Depth 43.3 ft
 Screen Length 10 ft
 Depth to Water 25.12 ft

Pumping Information:

Final Pumping Rate 150 mL/min
 Total System Volume 0.2819272 L
 Calculated Sample Rate 300 sec
 Stabilization Drawdown 1 in
 Total Volume Pumped 5.25 L

Low-Flow Sampling Stabilization Summary

Stabilization Time	Elapsed	Temp C	pH	SpCond μ S/cm Turb NTU	DTW ft	RDO mg/L	ORP mV
		+/- 0.5	+/- 0.1	+/- 5%		+/- 0.2	+/- 20
Last 5 13:18:29	900.02	22.74	5.30	86.90	25.20	2.39	248.53
Last 5 13:23:29	1200.02	22.14	5.30	89.76	25.20	2.34	244.53
Last 5 13:28:29	1500.02	22.18	5.30	89.31	25.21	2.30	237.53
Last 5 13:33:29	1800.02	21.91	5.27	91.33	25.21	2.30	229.66
Last 5 13:38:29	2100.02	21.81	5.30	90.54	25.21	2.29	221.43
Variance 0		0.03	0.00	-0.45		-0.04	-7.00
Variance 1		-0.26	-0.03	2.02		-0.00	-7.87
Variance 2		-0.10	0.03	-0.79		-0.00	-8.23

Notes

Sunny. Clear. Breeze from E

Grab Samples
SGWC-16

Sample time 1345

Product Name: Low-Flow System
 Date: 2016-06-29 08:21:08

Project Information:

Operator Name M Steffler
 Company Name AECOM
 Project Name Plant Scherer
 Site Name SGWC-17
 Latitude 33° 3' 57.22"
 Longitude -83° -48' -23.35"
 Sonde SN 449471
 Turbidity Make/Model LaMotte 2020we

Pump Information:

Pump Model/Type peristaltic
 Tubing Type polyethylene
 Tubing Diameter 0.17 in
 Tubing Length 27 ft
 Pump placement from TOC 21 ft

Well Information:

Well ID SGWC-17
 Well diameter 2 in
 Well Total Depth 26.16 ft
 Screen Length 10 ft
 Depth to Water 0.73 ft

Pumping Information:

Final Pumping Rate 150 mL/min
 Total System Volume 0.2105124 L
 Calculated Sample Rate 300 sec
 Stabilization Drawdown 3.8 in
 Total Volume Pumped 6.5 L

Low-Flow Sampling Stabilization Summary

Stabilization	Time	Elapsed	Temp C	pH	SpCond μ S/cm	Turb NTU	DTW ft	RDO mg/L	ORP mV
Last 5	07:55:48	1500.01	+/- 0.5	+/- 0.1	+/- 5%	+/- 5		+/- 0.2	+/- 20
Last 5	08:00:48	1800.01	21.91	6.21	475.66	6.21	1.05	0.19	81.68
Last 5	08:05:48	2100.01	21.83	6.21	475.83	3.84	1.05	0.16	83.14
Last 5	08:10:48	2400.01	21.82	6.21	476.62	2.89	1.05	0.16	82.24
Last 5	08:15:48	2700.01	21.84	6.21	475.93	2.15	1.06	0.15	83.12
Variance 0			21.82	6.21	476.68	3.37	1.05	0.15	82.83
Variance 1			-0.01	-0.00	0.78			-0.01	-0.91
Variance 2			0.02	0.00	-0.69			-0.01	0.88
			-0.02	-0.00	0.75			-0.00	-0.29

Notes

Cloudy. Foggy. Humid. Very Light on/off rain

Grab Samples
 SGWC-17

Sample time 0826

Product Name: Low-Flow System

Date: 2016-06-30 10:15:33

Project Information:

Operator Name Charles Watson
Company Name AECOM
Project Name Plant Scherer
Site Name SGWC-18
Latitude 33° 4' 20.17"
Longitude -83° -48' -23.23"
Sonde SN 449474
Turbidity Make/Model Lamotte 2020we

Pump Information:

Pump Model/Type bladder
Tubing Type Poly
Tubing Diameter 0.17 in
Tubing Length 50 ft

Pump placement from TOC 42 ft

Well Information:

Well ID SGWC-18
Well diameter 2 in
Well Total Depth 47.4 ft
Screen Length 10 ft
Depth to Water 33.92 ft

Pumping Information:

Final Pumping Rate 250 mL/min
Total System Volume 0.4131711 L
Calculated Sample Rate 300 sec
Stabilization Drawdown 3.84 in
Total Volume Pumped 20.45 L

Low-Flow Sampling Stabilization Summary

Stabilization Time	Elapsed	Temp C +/- 0.5	pH +/- 0.1	SpCond μ S/cm Turb NTU +/- 5%	DTW ft	RDO mg/L +/- 0.2	ORP mV +/- 20
Last 5 09:48:26	5401.11	21.78	4.69	1207.72	34.24	1.05	151.14
Last 5 09:53:26	5701.11	21.82	4.69	1205.86	34.24	1.06	150.37
Last 5 09:58:26	6001.11	21.87	4.69	1201.11	34.24	1.05	149.65
Last 5 10:03:26	6301.11	21.87	4.69	1196.56	34.24	1.03	149.15
Last 5 10:08:26	6601.11	21.91	4.69	1194.11	34.24	1.02	148.72
Variance 0		0.05	0.00	-4.75		-0.01	-0.71
Variance 1		-0.00	0.00	-4.55		-0.02	-0.51
Variance 2		0.04	-0.00	-2.46		-0.01	-0.43

Notes

Overcast 70F.
Rate changes: 0.1L/min to 0.15L/min at 08:33, 0.15 to 0.2 L/min at 09:13, 0.2 to 0.25 L/min at 09:38. Slight breeze picking up dust from the road. Sampling started at 10:13. Field blank 7 taken at 10:40.

Product Name: Low-Flow System
 Date: 2016-06-29 13:40:07

Project Information:

Operator Name Charles Watson
 Company Name AECOM
 Project Name Plant Scherer
 Site Name SGWC-19
 Latitude 33° 4' 3.7"
 Longitude -83° -48' -33.1"
 Sonde SN 449474
 Turbidity Make/Model Lamotte 2020we

Pump Information:

Pump Model/Type peristaltic
 Tubing Type Poly
 Tubing Diameter 0.17 in
 Tubing Length 40 ft
 Pump placement from TOC 32 ft

Well Information:

Well ID SGWC-19
 Well diameter 2 in
 Well Total Depth 37.4 ft
 Screen Length 10 ft
 Depth to Water 16.54 ft

Pumping Information:

Final Pumping Rate 250 mL/min
 Total System Volume 0.2685369 L
 Calculated Sample Rate 300 sec
 Stabilization Drawdown 10.2 in
 Total Volume Pumped 8.05 L

Low-Flow Sampling Stabilization Summary

Stabilization	Time	Elapsed	Temp C	pH	SpCond μ S/cm	Turb NTU	DTW ft	RDO mg/L	ORP mV
Last 5	13:09:32	900.02	+/- 0.5	+/- 0.1	+/- 5%	+/- 5		+/- 0.2	+/- 20
Last 5	13:14:32	1200.03	21.15	5.55	540.09	2.70	17.29	2.01	129.60
Last 5	13:19:32	1500.10	20.79	5.54	536.56	3.13	17.37	1.98	128.63
Last 5	13:24:32	1800.04	20.75	5.52	537.51	1.87	17.39	1.97	129.57
Last 5	13:29:32	2100.02	20.71	5.51	536.15	1.94	17.39	1.99	130.03
Variance 0			20.66	5.50	534.04	1.50	17.39	1.97	129.78
Variance 1			-0.05	-0.02	0.96			-0.01	0.93
Variance 2			-0.04	-0.01	-1.36			0.02	0.47
			-0.04	-0.00	-2.11			-0.02	-0.25

Notes

Sunny 90F. Well site in good condition.
 Rate change at 13:04, 150 mL/min to 250 mL/min. Sampling started at 13:33. Dup-7 taken at this well.

Grab Samples
 SGWC-19
 Sample time 1333
 DUP-7
 Duplicate

Product Name: Low-Flow System
 Date: 2016-06-29 12:55:00

Project Information:

Operator Name R. Hilliard
 Company Name AECOM
 Project Name Plant Scherer
 Site Name SGWC-20
 Latitude 33° 4' 3.7"
 Longitude -83° -48' -42.5"
 Sonde SN 364456
 Turbidity Make/Model LaMotte 2020we

Pump Information:

Pump Model/Type peristaltic
 Tubing Type polyethylene
 Tubing Diameter 0.17 in
 Tubing Length 35 ft

Pump placement from TOC 26 ft

Well Information:

Well ID SGWC-20
 Well diameter 2 in
 Well Total Depth 31.3 ft
 Screen Length 10 ft
 Depth to Water 13.76 ft

Pumping Information:

Final Pumping Rate 140 mL/min
 Total System Volume 0.2462198 L
 Calculated Sample Rate 300 sec
 Stabilization Drawdown 6 in
 Total Volume Pumped 5.5 L

Low-Flow Sampling Stabilization Summary

Stabilization Time	Elapsed Time	Temp C +/- 0.5	pH +/- 0.1	SpCond μ S/cm Turb NTU +/- 5	DTW ft	RDO mg/L +/- 0.2	ORP mV +/- 10
Last 5 12:31:59	1200.01	22.88	4.30	562.15	14.27	0.54	346.85
Last 5 12:36:59	1500.01	23.00	4.30	568.19	14.25	0.53	364.77
Last 5 12:41:59	1800.01	22.88	4.30	574.76	14.28	0.55	386.04
Last 5 12:46:59	2100.01	22.94	4.29	589.11	14.28	0.51	384.99
Last 5 12:51:59	2400.01	22.79	4.30	593.47	14.26	0.50	383.29
Variance 0		-0.12	-0.00	6.57		0.02	21.28
Variance 1		0.05	-0.00	14.34		-0.04	-1.05
Variance 2		-0.14	0.00	4.36		-0.01	-1.71

Notes

Clear, light breeze, 80F

Grab Samples

SGWC-20

Sample Time: 12:58

Product Name: Low-Flow System

Date: 2016-06-29 10:32:30

Project Information:

Operator Name M Steffler
Company Name AECOM
Project Name Plant Scherer
Site Name SGWC-21
Latitude 0° 0' 0"
Longitude 0° 0' 0"
Sonde SN 449471
Turbidity Make/Model LaMotte 2020we

Pump Information:

Pump Model/Type peristaltic
Tubing Type polyethylene
Tubing Diameter 0.17 in
Tubing Length 27 ft

Pump placement from TOC 22.5 ft

Well Information:

Well ID SGWC-21
Well diameter 2 in
Well Total Depth 27.76 ft
Screen Length 10 ft
Depth to Water 1.29 ft

Pumping Information:

Final Pumping Rate 150 mL/min
Total System Volume 0.2105124 L
Calculated Sample Rate 300 sec
Stabilization Drawdown 1.1 in
Total Volume Pumped 4.5 L

Low-Flow Sampling Stabilization Summary

Stabilization Time	Elapsed	Temp C	pH	SpCond μ S/cm	Turb NTU	DTW ft	RDO mg/L	ORP mV
Last 5	10:09:29	600.02	+/- 0.1	+/- 5%	+/- 5		+/- 0.2	+/- 20
Last 5	10:14:29	900.01	5.96	461.85	5.52	1.37	0.28	226.94
Last 5	10:19:29	1200.01	5.96	462.35	4.49	1.37	0.24	237.60
Last 5	10:24:29	1500.01	5.96	462.46	4.85	1.37	0.21	231.05
Last 5	10:29:29	1800.02	5.96	462.54	3.94	1.38	0.19	254.13
Variance 0		-0.09	-0.00	462.18	3.22	1.38	0.18	253.23
Variance 1		-0.07	0.00	0.11			-0.03	-6.55
Variance 2		0.00	-0.00	0.08			-0.02	23.08
				-0.36			-0.01	-0.90

Notes

Cloudy. No breeze. 80 F

Grab Samples

SGWC-21
Sample time 10:36

Product Name: Low-Flow System

Date: 2016-06-29 11:19:20

Project Information:

Operator Name Charles Watson
Company Name AECOM
Project Name Plant Scherer
Site Name SGWC-22
Latitude 33° 3' 59.03"
Longitude -83° -49' -9.45"
Sonde SN 449474
Turbidity Make/Model Lamotte 2020we

Pump Information:

Pump Model/Type bladder
Tubing Type Poly
Tubing Diameter 0.17 in
Tubing Length 55 ft

Pump placement from TOC 47.3 ft

Well Information:

Well ID SGWC-22
Well diameter 2 in
Well Total Depth 52.6 ft
Screen Length 10 ft
Depth to Water 26.29 ft

Pumping Information:

Final Pumping Rate 300 mL/min
Total System Volume 0.4354883 L
Calculated Sample Rate 300 sec
Stabilization Drawdown 22.92 in
Total Volume Pumped 27.75 L

Low-Flow Sampling Stabilization Summary

Stabilization Time	Elapsed	Temp C	pH	SpCond μ S/cm Turb NTU	DTW ft	RDO mg/L	ORP mV
Last 5	10:50:32	19.95	+/- 0.1	+/- 5%		+/- 0.2	+/- 20
Last 5	10:55:32	19.87	5.66	341.46	28.20	0.04	100.97
Last 5	11:00:32	20.08	5.67	340.40	28.20	0.05	100.10
Last 5	11:05:32	20.33	5.68	341.88	28.20	0.04	100.41
Last 5	11:10:32	20.35	5.68	339.56	28.20	0.04	100.64
Variance 0		0.21	0.00	340.24	28.20	0.04	100.85
Variance 1		0.25	0.00	1.48		-0.01	0.31
Variance 2		0.02	0.00	-2.31		0.00	0.23
			0.00	0.67		-0.00	0.21

Notes

Overcast, humid. 75F. Well site in good condition.
Rate changes: 150 mL/min to 200 mL/min at 9:40. 200 to 300 mL/min at 9:55. Sampling started at 11:11.

Grab Samples
SGWC-22

Sample time 11:11

Product Name: Low-Flow System

Date: 2016-06-29 10:17:50

Project Information:

Operator Name R. Hilliard
 Company Name AECOM
 Project Name Plant Scherer
 Site Name SGWC-23
 Latitude 33° 4' 10.5"
 Longitude -83° -49' -19.6"
 Sonde SN 364456
 Turbidity Make/Model LaMotte 2020we

Pump Information:

Pump Model/Type bladder
 Tubing Type polyethylene
 Tubing Diameter 0.17 in
 Tubing Length 55 ft

Pump placement from TOC 47.3 ft

Well Information:

Well ID SGWC-23
 Well diameter 2 in
 Well Total Depth 52.94 ft
 Screen Length 10 ft
 Depth to Water 31.18 ft

Pumping Information:

Final Pumping Rate 250 mL/min
 Total System Volume 0.4354883 L
 Calculated Sample Rate 300 sec
 Stabilization Drawdown 1.9 in
 Total Volume Pumped 11.5 L

Low-Flow Sampling Stabilization Summary

Stabilization	Time	Elapsed	Temp C	pH	SpCond μ S/cm	Turb NTU	DTW ft	RDO mg/L	ORP mV
Last 5	09:52:02	1500.01	+/- 0.5	+/- 0.1	+/- 5%	+/- 5		+/- 0.2	+/- 10
Last 5	09:57:02	1800.00	19.36	5.89	367.14	0.73	31.34	1.50	71.03
Last 5	10:02:02	2100.00	19.32	5.88	371.93	0.63	31.34	1.77	76.69
Last 5	10:07:02	2400.00	19.36	5.87	374.38	0.60	31.34	1.85	81.47
Last 5	10:12:02	2699.99	19.38	5.88	375.64	1.00	31.34	1.89	85.85
Variance 0			19.34	5.88	376.57	0.47	31.34	1.96	89.36
Variance 1			0.04	-0.01	2.44			0.08	4.78
Variance 2			0.02	0.00	1.26			0.05	4.38
			-0.04	0.00	0.93			0.06	3.51

Notes

Partly cloudy, light breeze, intermittent light rain, 75F

Grab Samples SGWC-23

Sample Time: 10:18

Product Name: Low-Flow System

Date: 2016-06-23 09:24:33

Project Information:

Operator Name *WB W. Bowen*
 Company Name *AE*
 Project Name
 Site Name
 Latitude
 Longitude
 Sonde SN
 Turbidity Make/Model

Pump Information:
 Pump Model/Type
 Tubing Type
 Tubing Diameter
 Tubing Length

Proactive Alexis
 PE
 0.17 in
 41 ft

Pump placement from TOC

37 ft

Well Information:

Well ID
 Well diameter
 Well Total Depth
 Screen Length
 Depth to Water

Pumping Information:
 Final Pumping Rate
 Total System Volume
 Calculated Sample Rate
 Stabilization Drawdown
 Total Volume Pumped

150 mL/min
 0.2730004 L
 300 sec
 0.47 in
 6.35 L

Low-Flow Sampling Stabilization Summary

Stabilization	Time	Elapsed	Temp C	pH	SpCond μ S/cm Turb NTU	DTW ft	RDO mg/L	ORP mV
			+/- 0.5	+/- 0.1	+/- 5%	+/- 10	+/- 0.3	+/- 10
Last 5	08:57:37	1500.02	19.43	6.33	148.23	6.21	1.89	119.80
Last 5	09:02:37	1800.02	19.19	6.33	148.64	6.39	1.85	117.37
Last 5	09:07:37	2100.02	19.25	6.34	148.71	4.50	1.84	115.19
Last 5	09:12:37	2400.02	19.24	6.34	148.31	3.71	1.84	113.65
Last 5	09:17:37	2700.02	19.33	6.33	148.00	3.94	1.83	114.08
Variance 0			0.06	0.00	0.08		-0.01	-2.18
Variance 1			-0.01	0.00	-0.40		-0.01	-1.54
Variance 2			0.09	-0.01	-0.31		-0.00	0.43

Notes

Sample collected at 09:25.

Grab Samples

- SGWA-24
 - DUP-5 \rightarrow Field Duplicate

Product Name: Low-Flow System

Date: 2016-06-24 12:02:28

Project Information:

Operator Name M Steffler
 Company Name AECOM
 Project Name Plant Scherer
 Site Name SGWA-25
 Latitude 0° 0' 0"
 Longitude 0° 0' 0"
 Sonde SN 449471
 Turbidity Make/Model LaMotte 2020we

Pump Information:

Pump Model/Type bladder
 Tubing Type polyethylene
 Tubing Diameter 0.17 in
 Tubing Length 47 ft
 Pump placement from TOC 42 ft

Well Information:

Well ID SGWA-25
 Well diameter 2 in
 Well Total Depth 48.00 ft
 Screen Length 10 ft
 Depth to Water 27.00 ft

Pumping Information:

Final Pumping Rate 150 mL/min
 Total System Volume 0.3997809 L
 Calculated Sample Rate 300 sec
 Stabilization Drawdown 1.5 in
 Total Volume Pumped 26.25 L

Low-Flow Sampling Stabilization Summary

Stabilization	Time	Elapsed	Temp C	pH	SpCond μ S/cm Turb NTU	DTW ft	RDO mg/L	ORP mV
			+/- 0.5	+/- 0.1	+/- 5%		+/- 0.2	+/- 20
Last 5	11:31:06	10510.75	22.99	6.13	155.06	27.13	0.23	8.55
Last 5	11:36:06	10810.75	23.17	6.13	154.29	27.13	0.24	9.86
Last 5	11:41:06	11110.75	23.34	6.14	155.22	27.13	0.24	9.86
Last 5	11:46:06	11410.75	23.11	6.14	154.89	27.13	0.25	10.65
Last 5	11:51:06	11710.75	23.34	6.14	154.18	27.13	0.26	11.01
Variance 0			0.17	0.01	0.93		0.01	0.00
Variance 1			-0.23	0.00	-0.33		0.01	0.79
Variance 2			0.23	-0.00	-0.72		0.00	0.37

Notes

Clear. Humid. 80 degrees. No wind
 11:55 turb=4.78 wL=27.13. Low flow stopped before last reading

Grab Samples
 SGWA-25

Sample time 12:00 

Product Name: Low-Flow System

Date: 2016-06-24 12:25:59

Project Information:

Operator Name M Steffler
Company Name AECOM
Project Name Plant Scherer
Site Name SGWA-25
Latitude 0° 0' 0"
Longitude 0° 0' 0"
Sonde SN 449471
Turbidity Make/Model LaMotte 2020we

Pump Information:

Pump Model/Type bladder
Tubing Type polyethylene
Tubing Diameter 0.17 in
Tubing Length 47 ft

Pump placement from TOC 42 ft

Well Information:

Well ID SGWA-25
Well diameter 2 in
Well Total Depth 48 ft
Screen Length 10 ft
Depth to Water 27.00 ft

Pumping Information:

Final Pumping Rate 0 mL/min
Total System Volume 0.3997809 L
Calculated Sample Rate 300 sec
Stabilization Drawdown 0 in
Total Volume Pumped 0 L

Low-Flow Sampling Stabilization Summary

Stabilization	Time	Elapsed	Temp C	pH	SpCond μ S/cm Turb NTU	DTW ft	RDO mg/L	ORP mV
Last 5	12:10:57	300.03	+/- 0.5	+/- 0.1	+/- 5%		+/- 0.2	+/- 20
Last 5	12:15:57	600.02	23.78	6.14	155.15	27.13	0.25	11.92
Last 5	12:20:56	899.88	23.84	6.14	155.73	27.13	0.25	12.89
Last 5			23.76	6.14	155.37	27.13	0.25	14.36
Variance 0			nan	nan	nan		nan	nan
Variance 1			0.06	0.00	0.58		-0.00	0.97
Variance 2			-0.08	0.00	-0.36		0.00	1.48

Notes

Restart of low flow after inadvertently stopping.
Due to time constraints from lab will return on Monday

Grab Samples

~~SGWA-25~~ *fd*
Return on Monday due to lab constraints (insufficient time to get samples into the lab before the weekend) *fd*

Product Name: Low-Flow System

Date: 2016-06-27 10:39:27

Project Information:

Operator Name M Steffler
 Company Name AECOM
 Project Name Plant Scherer
 Site Name SGWA-25
 Latitude 0° 0' 0"
 Longitude 0° 0' 0"
 Sonde SN 449471
 Turbidity Make/Model LaMotte 2020we

Pump Information:

Pump Model/Type bladder
 Tubing Type polyethylene
 Tubing Diameter 0.17 in
 Tubing Length 47 ft

Pump placement from TOC 42 ft

Well Information:

Well ID SGWA-25
 Well diameter 2 in
 Well Total Depth 48.0 ft
 Screen Length 10 ft
 Depth to Water 27.11 ft

Pumping Information:

Final Pumping Rate 200 mL/min
 Total System Volume 0.3997809 L
 Calculated Sample Rate 300 sec
 Stabilization Drawdown 3.5 in
 Total Volume Pumped 18 L

Low-Flow Sampling Stabilization Summary

Stabilization	Time	Elapsed	Temp C	pH	SpCond μ S/cm	Turb NTU	DTW ft	RDO mg/L	ORP mV
Last 5	10:14:40	4200.96	+/- 0.5	+/- 0.1	+/- 5%	+/- 5		+/- 0.2	+/- 20
Last 5	10:19:40	4500.96	19.05	6.09	151.39	5.97	27.40	0.23	19.24
Last 5	10:24:40	4800.96	19.06	6.09	151.41	5.71	27.40	0.24	19.91
Last 5	10:29:40	5100.96	19.15	6.09	150.88	3.48	27.40	0.24	20.35
Last 5	10:34:40	5400.96	19.10	6.09	150.66	3.77	27.40	0.24	20.75
Variance 0			19.13	6.08	150.70	3.07	27.40	0.24	21.24
Variance 1			0.09	0.00	-0.54			-0.00	0.43
Variance 2			-0.05	0.00	-0.21			-0.00	0.40
			0.03	-0.00	0.03			0.00	0.49

Notes

Clear, Sunny, 85 F. No wind. Disregard readings from 6/24/16 on this well. IPAD stopped working prior to last reading and lab constraints made us end sampling.

Grab Samples SGWA-25

Sample time 10:40

EQB-5 sample time 10:31 RH



APPENDIX A

ANALYTICAL RESULTS & FIELD DATA FORMS
(AUGUST 2016)

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

TestAmerica Laboratories, Inc.

TestAmerica Pensacola

3355 McLemore Drive

Pensacola, FL 32514

Tel: (850)474-1001

TestAmerica Job ID: 400-125959-1

TestAmerica Sample Delivery Group: Ash Pond

Client Project/Site: CCR Plant Scherer

Revision: 1

For:

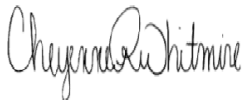
Southern Company

241 Ralph McGill Blvd SE

B10185

Atlanta, Georgia 30308

Attn: Joju Abraham



Authorized for release by:

9/1/2016 5:48:11 PM

Cheyenne Whitmire, Project Manager II

(850)471-6222

cheyenne.whitmire@testamericainc.com

LINKS

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The test results in this report meet all 2003 NELAC and 2009 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.

1

2

3

4

5

6

7

8

9

10

11

12

13



Table of Contents

Cover Page	1
Table of Contents	2
Detection Summary	3
Method Summary	5
Sample Summary	6
Client Sample Results	7
Definitions	13
Chronicle	14
QC Association	16
QC Sample Results	18
Chain of Custody	22
Receipt Checklists	25
Certification Summary	26

Detection Summary

Client: Southern Company
Project/Site: CCR Plant Scherer

TestAmerica Job ID: 400-125959-1
SDG: Ash Pond

Client Sample ID: SGWA-24

Lab Sample ID: 400-125959-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chloride	2.0		1.0	0.89	mg/L	1		300.0	Total/NA
Barium	0.018		0.0025	0.00049	mg/L	5		6020	Total Recoverable
Calcium	11		0.25	0.13	mg/L	5		6020	Total Recoverable
Chromium	0.0038		0.0025	0.0011	mg/L	5		6020	Total Recoverable
Total Dissolved Solids	110		5.0	3.4	mg/L	1		SM 2540C	Total/NA

Client Sample ID: SGWA-3

Lab Sample ID: 400-125959-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chloride	3.4		1.0	0.89	mg/L	1		300.0	Total/NA
Sulfate	1.5		1.0	0.70	mg/L	1		300.0	Total/NA
Barium	0.029		0.0025	0.00049	mg/L	5		6020	Total Recoverable
Calcium	5.0		0.25	0.13	mg/L	5		6020	Total Recoverable
Chromium	0.0071		0.0025	0.0011	mg/L	5		6020	Total Recoverable
Cobalt	0.00051	J	0.0025	0.00040	mg/L	5		6020	Total Recoverable
Total Dissolved Solids	38		5.0	3.4	mg/L	1		SM 2540C	Total/NA

Client Sample ID: SGWA-1

Lab Sample ID: 400-125959-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chloride	2.1		1.0	0.89	mg/L	1		300.0	Total/NA
Sulfate	1.2		1.0	0.70	mg/L	1		300.0	Total/NA
Antimony	0.0012	J	0.0025	0.0010	mg/L	5		6020	Total Recoverable
Arsenic	0.00065	J	0.0013	0.00046	mg/L	5		6020	Total Recoverable
Barium	0.048		0.0025	0.00049	mg/L	5		6020	Total Recoverable
Calcium	2.1		0.25	0.13	mg/L	5		6020	Total Recoverable
Cobalt	0.016		0.0025	0.00040	mg/L	5		6020	Total Recoverable
Thallium	0.000095	J	0.00050	0.000085	mg/L	5		6020	Total Recoverable
Total Dissolved Solids	22		5.0	3.4	mg/L	1		SM 2540C	Total/NA

Client Sample ID: SGWA-2

Lab Sample ID: 400-125959-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chloride	1.5		1.0	0.89	mg/L	1		300.0	Total/NA
Arsenic	0.00050	J	0.0013	0.00046	mg/L	5		6020	Total Recoverable
Barium	0.034		0.0025	0.00049	mg/L	5		6020	Total Recoverable
Calcium	9.4		0.25	0.13	mg/L	5		6020	Total Recoverable
Chromium	0.0099		0.0025	0.0011	mg/L	5		6020	Total Recoverable

This Detection Summary does not include radiochemical test results.

TestAmerica Pensacola

Detection Summary

Client: Southern Company
Project/Site: CCR Plant Scherer

TestAmerica Job ID: 400-125959-1
SDG: Ash Pond

Client Sample ID: SGWA-2 (Continued)

Lab Sample ID: 400-125959-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Total Dissolved Solids	100		5.0	3.4	mg/L	1		SM 2540C	Total/NA

Client Sample ID: DUP-4

Lab Sample ID: 400-125959-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chloride	2.1		1.0	0.89	mg/L	1		300.0	Total/NA
Sulfate	1.2		1.0	0.70	mg/L	1		300.0	Total/NA
Arsenic	0.00059	J	0.0013	0.00046	mg/L	5		6020	Total Recoverable
Barium	0.048		0.0025	0.00049	mg/L	5		6020	Total Recoverable
Calcium	2.1		0.25	0.13	mg/L	5		6020	Total Recoverable
Cobalt	0.016		0.0025	0.00040	mg/L	5		6020	Total Recoverable
Mercury	0.000070	J	0.00020	0.000070	mg/L	1		7470A	Total/NA
Total Dissolved Solids	8.0		5.0	3.4	mg/L	1		SM 2540C	Total/NA

Client Sample ID: SGWA-5

Lab Sample ID: 400-125959-10

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chloride	1.8		1.0	0.89	mg/L	1		300.0	Total/NA
Barium	0.0088		0.0025	0.00049	mg/L	5		6020	Total Recoverable
Calcium	1.3		0.25	0.13	mg/L	5		6020	Total Recoverable
Mercury	0.000072	J	0.00020	0.000070	mg/L	1		7470A	Total/NA
Total Dissolved Solids	52		5.0	3.4	mg/L	1		SM 2540C	Total/NA

This Detection Summary does not include radiochemical test results.

TestAmerica Pensacola

Method Summary

Client: Southern Company
Project/Site: CCR Plant Scherer

TestAmerica Job ID: 400-125959-1
SDG: Ash Pond

Method	Method Description	Protocol	Laboratory
300.0	Anions, Ion Chromatography	MCAWW	TAL PEN
6020	Metals (ICP/MS)	SW846	TAL PEN
7470A	Mercury (CVAA)	SW846	TAL PEN
SM 2540C	Solids, Total Dissolved (TDS)	SM	TAL PEN

Protocol References:

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:

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

Sample Summary

Client: Southern Company
Project/Site: CCR Plant Scherer

TestAmerica Job ID: 400-125959-1
SDG: Ash Pond

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
400-125959-1	SGWA-24	Water	08/16/16 11:50	08/17/16 10:09
400-125959-2	SGWA-3	Water	08/16/16 15:15	08/17/16 10:09
400-125959-3	SGWA-1	Water	08/16/16 12:02	08/17/16 10:09
400-125959-4	SGWA-2	Water	08/16/16 13:46	08/17/16 10:09
400-125959-5	DUP-4	Water	08/16/16 00:00	08/17/16 10:09
400-125959-10	SGWA-5	Water	08/16/16 14:19	08/17/16 10:09

- 1
- 2
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- 11
- 12
- 13

Client Sample Results

Client: Southern Company
Project/Site: CCR Plant Scherer

TestAmerica Job ID: 400-125959-1
SDG: Ash Pond

Client Sample ID: SGWA-24

Date Collected: 08/16/16 11:50

Date Received: 08/17/16 10:09

Lab Sample ID: 400-125959-1

Matrix: Water

Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	2.0		1.0	0.89	mg/L			08/24/16 07:56	1
Fluoride	<0.082		0.20	0.082	mg/L			08/24/16 07:56	1
Sulfate	<0.70		1.0	0.70	mg/L			08/24/16 07:56	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0010		0.0025	0.0010	mg/L		08/19/16 09:30	08/22/16 20:03	5
Arsenic	<0.00046		0.0013	0.00046	mg/L		08/19/16 09:30	08/22/16 20:03	5
Barium	0.018		0.0025	0.00049	mg/L		08/19/16 09:30	08/22/16 20:03	5
Beryllium	<0.00034		0.0025	0.00034	mg/L		08/19/16 09:30	08/22/16 20:03	5
Boron	<0.021		0.050	0.021	mg/L		08/19/16 09:30	08/22/16 20:03	5
Cadmium	<0.00034		0.0025	0.00034	mg/L		08/19/16 09:30	08/22/16 20:03	5
Calcium	11		0.25	0.13	mg/L		08/19/16 09:30	08/22/16 20:03	5
Chromium	0.0038		0.0025	0.0011	mg/L		08/19/16 09:30	08/22/16 20:03	5
Cobalt	<0.00040		0.0025	0.00040	mg/L		08/19/16 09:30	08/22/16 20:03	5
Lead	<0.00035		0.0013	0.00035	mg/L		08/19/16 09:30	08/22/16 20:03	5
Lithium	<0.0032		0.0050	0.0032	mg/L		08/19/16 09:30	08/22/16 20:03	5
Molybdenum	<0.00085		0.015	0.00085	mg/L		08/19/16 09:30	08/22/16 20:03	5
Selenium	<0.00024		0.0013	0.00024	mg/L		08/19/16 09:30	08/22/16 20:03	5
Thallium	<0.000085		0.00050	0.000085	mg/L		08/19/16 09:30	08/22/16 20:03	5

Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.000070		0.00020	0.000070	mg/L		08/21/16 12:32	08/24/16 09:57	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	110		5.0	3.4	mg/L			08/20/16 16:18	1

Client Sample Results

Client: Southern Company
Project/Site: CCR Plant Scherer

TestAmerica Job ID: 400-125959-1
SDG: Ash Pond

Client Sample ID: SGWA-3

Lab Sample ID: 400-125959-2

Date Collected: 08/16/16 15:15

Matrix: Water

Date Received: 08/17/16 10:09

Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	3.4		1.0	0.89	mg/L			08/24/16 08:19	1
Fluoride	<0.082		0.20	0.082	mg/L			08/24/16 08:19	1
Sulfate	1.5		1.0	0.70	mg/L			08/24/16 08:19	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0010		0.0025	0.0010	mg/L		08/19/16 09:30	08/22/16 20:08	5
Arsenic	<0.00046		0.0013	0.00046	mg/L		08/19/16 09:30	08/22/16 20:08	5
Barium	0.029		0.0025	0.00049	mg/L		08/19/16 09:30	08/22/16 20:08	5
Beryllium	<0.00034		0.0025	0.00034	mg/L		08/19/16 09:30	08/22/16 20:08	5
Boron	<0.021		0.050	0.021	mg/L		08/19/16 09:30	08/22/16 20:08	5
Cadmium	<0.00034		0.0025	0.00034	mg/L		08/19/16 09:30	08/22/16 20:08	5
Calcium	5.0		0.25	0.13	mg/L		08/19/16 09:30	08/22/16 20:08	5
Chromium	0.0071		0.0025	0.0011	mg/L		08/19/16 09:30	08/22/16 20:08	5
Cobalt	0.00051	J	0.0025	0.00040	mg/L		08/19/16 09:30	08/22/16 20:08	5
Lead	<0.00035		0.0013	0.00035	mg/L		08/19/16 09:30	08/22/16 20:08	5
Lithium	<0.0032		0.0050	0.0032	mg/L		08/19/16 09:30	08/22/16 20:08	5
Molybdenum	<0.00085		0.015	0.00085	mg/L		08/19/16 09:30	08/22/16 20:08	5
Selenium	<0.00024		0.0013	0.00024	mg/L		08/19/16 09:30	08/22/16 20:08	5
Thallium	<0.000085		0.00050	0.000085	mg/L		08/19/16 09:30	08/22/16 20:08	5

Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.000070		0.00020	0.000070	mg/L		08/21/16 12:32	08/24/16 09:58	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	38		5.0	3.4	mg/L			08/20/16 16:18	1

Client Sample Results

Client: Southern Company
Project/Site: CCR Plant Scherer

TestAmerica Job ID: 400-125959-1
SDG: Ash Pond

Client Sample ID: SGWA-1

Date Collected: 08/16/16 12:02

Date Received: 08/17/16 10:09

Lab Sample ID: 400-125959-3

Matrix: Water

Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	2.1		1.0	0.89	mg/L			08/24/16 08:42	1
Fluoride	<0.082		0.20	0.082	mg/L			08/24/16 08:42	1
Sulfate	1.2		1.0	0.70	mg/L			08/24/16 08:42	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.0012	J	0.0025	0.0010	mg/L		08/19/16 09:30	08/22/16 20:26	5
Arsenic	0.00065	J	0.0013	0.00046	mg/L		08/19/16 09:30	08/22/16 20:26	5
Barium	0.048		0.0025	0.00049	mg/L		08/19/16 09:30	08/22/16 20:26	5
Beryllium	<0.00034		0.0025	0.00034	mg/L		08/19/16 09:30	08/22/16 20:26	5
Boron	<0.021		0.050	0.021	mg/L		08/19/16 09:30	08/22/16 20:26	5
Cadmium	<0.00034		0.0025	0.00034	mg/L		08/19/16 09:30	08/22/16 20:26	5
Calcium	2.1		0.25	0.13	mg/L		08/19/16 09:30	08/22/16 20:26	5
Chromium	<0.0011		0.0025	0.0011	mg/L		08/19/16 09:30	08/22/16 20:26	5
Cobalt	0.016		0.0025	0.00040	mg/L		08/19/16 09:30	08/22/16 20:26	5
Lead	<0.00035		0.0013	0.00035	mg/L		08/19/16 09:30	08/22/16 20:26	5
Lithium	<0.0032		0.0050	0.0032	mg/L		08/19/16 09:30	08/22/16 20:26	5
Molybdenum	<0.00085		0.015	0.00085	mg/L		08/19/16 09:30	08/22/16 20:26	5
Selenium	<0.00024		0.0013	0.00024	mg/L		08/19/16 09:30	08/22/16 20:26	5
Thallium	0.000095	J	0.00050	0.000085	mg/L		08/19/16 09:30	08/22/16 20:26	5

Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.000070		0.00020	0.000070	mg/L		08/21/16 12:32	08/24/16 10:00	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	22		5.0	3.4	mg/L			08/20/16 16:18	1

Client Sample Results

Client: Southern Company
Project/Site: CCR Plant Scherer

TestAmerica Job ID: 400-125959-1
SDG: Ash Pond

Client Sample ID: SGWA-2

Date Collected: 08/16/16 13:46

Date Received: 08/17/16 10:09

Lab Sample ID: 400-125959-4

Matrix: Water

Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	1.5		1.0	0.89	mg/L			08/24/16 09:05	1
Fluoride	<0.082		0.20	0.082	mg/L			08/24/16 09:05	1
Sulfate	<0.70		1.0	0.70	mg/L			08/24/16 09:05	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0010		0.0025	0.0010	mg/L		08/19/16 09:30	08/22/16 20:30	5
Arsenic	0.00050	J	0.0013	0.00046	mg/L		08/19/16 09:30	08/22/16 20:30	5
Barium	0.034		0.0025	0.00049	mg/L		08/19/16 09:30	08/22/16 20:30	5
Beryllium	<0.00034		0.0025	0.00034	mg/L		08/19/16 09:30	08/22/16 20:30	5
Boron	<0.021		0.050	0.021	mg/L		08/19/16 09:30	08/22/16 20:30	5
Cadmium	<0.00034		0.0025	0.00034	mg/L		08/19/16 09:30	08/22/16 20:30	5
Calcium	9.4		0.25	0.13	mg/L		08/19/16 09:30	08/22/16 20:30	5
Chromium	0.0099		0.0025	0.0011	mg/L		08/19/16 09:30	08/22/16 20:30	5
Cobalt	<0.00040		0.0025	0.00040	mg/L		08/19/16 09:30	08/22/16 20:30	5
Lead	<0.00035		0.0013	0.00035	mg/L		08/19/16 09:30	08/22/16 20:30	5
Lithium	<0.0032		0.0050	0.0032	mg/L		08/19/16 09:30	08/22/16 20:30	5
Molybdenum	<0.00085		0.015	0.00085	mg/L		08/19/16 09:30	08/22/16 20:30	5
Selenium	<0.00024		0.0013	0.00024	mg/L		08/19/16 09:30	08/22/16 20:30	5
Thallium	<0.000085		0.00050	0.000085	mg/L		08/19/16 09:30	08/22/16 20:30	5

Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.000070		0.00020	0.000070	mg/L		08/21/16 12:32	08/24/16 10:01	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	100		5.0	3.4	mg/L			08/20/16 16:18	1

Client Sample Results

Client: Southern Company
Project/Site: CCR Plant Scherer

TestAmerica Job ID: 400-125959-1
SDG: Ash Pond

Client Sample ID: DUP-4
Date Collected: 08/16/16 00:00
Date Received: 08/17/16 10:09

Lab Sample ID: 400-125959-5
Matrix: Water

Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	2.1		1.0	0.89	mg/L			08/24/16 09:28	1
Fluoride	<0.082		0.20	0.082	mg/L			08/24/16 09:28	1
Sulfate	1.2		1.0	0.70	mg/L			08/24/16 09:28	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0010		0.0025	0.0010	mg/L		08/19/16 09:30	08/22/16 20:35	5
Arsenic	0.00059	J	0.0013	0.00046	mg/L		08/19/16 09:30	08/22/16 20:35	5
Barium	0.048		0.0025	0.00049	mg/L		08/19/16 09:30	08/22/16 20:35	5
Beryllium	<0.00034		0.0025	0.00034	mg/L		08/19/16 09:30	08/22/16 20:35	5
Boron	<0.021		0.050	0.021	mg/L		08/19/16 09:30	08/22/16 20:35	5
Cadmium	<0.00034		0.0025	0.00034	mg/L		08/19/16 09:30	08/22/16 20:35	5
Calcium	2.1		0.25	0.13	mg/L		08/19/16 09:30	08/22/16 20:35	5
Chromium	<0.0011		0.0025	0.0011	mg/L		08/19/16 09:30	08/22/16 20:35	5
Cobalt	0.016		0.0025	0.00040	mg/L		08/19/16 09:30	08/22/16 20:35	5
Lead	<0.00035		0.0013	0.00035	mg/L		08/19/16 09:30	08/22/16 20:35	5
Lithium	<0.0032		0.0050	0.0032	mg/L		08/19/16 09:30	08/22/16 20:35	5
Molybdenum	<0.00085		0.015	0.00085	mg/L		08/19/16 09:30	08/22/16 20:35	5
Selenium	<0.00024		0.0013	0.00024	mg/L		08/19/16 09:30	08/22/16 20:35	5
Thallium	<0.000085		0.00050	0.000085	mg/L		08/19/16 09:30	08/22/16 20:35	5

Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.000070	J	0.00020	0.000070	mg/L		08/21/16 12:32	08/24/16 10:02	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	8.0		5.0	3.4	mg/L			08/20/16 16:18	1

Client Sample Results

Client: Southern Company
Project/Site: CCR Plant Scherer

TestAmerica Job ID: 400-125959-1
SDG: Ash Pond

Client Sample ID: SGWA-5

Date Collected: 08/16/16 14:19

Date Received: 08/17/16 10:09

Lab Sample ID: 400-125959-10

Matrix: Water

Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	1.8		1.0	0.89	mg/L			08/24/16 12:53	1
Fluoride	<0.082		0.20	0.082	mg/L			08/24/16 12:53	1
Sulfate	<0.70		1.0	0.70	mg/L			08/24/16 12:53	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0010		0.0025	0.0010	mg/L		08/19/16 09:30	08/22/16 20:44	5
Arsenic	<0.00046		0.0013	0.00046	mg/L		08/19/16 09:30	08/22/16 20:44	5
Barium	0.0088		0.0025	0.00049	mg/L		08/19/16 09:30	08/22/16 20:44	5
Beryllium	<0.00034		0.0025	0.00034	mg/L		08/19/16 09:30	08/22/16 20:44	5
Boron	<0.021		0.050	0.021	mg/L		08/19/16 09:30	08/22/16 20:44	5
Cadmium	<0.00034		0.0025	0.00034	mg/L		08/19/16 09:30	08/22/16 20:44	5
Calcium	1.3		0.25	0.13	mg/L		08/19/16 09:30	08/22/16 20:44	5
Chromium	<0.0011		0.0025	0.0011	mg/L		08/19/16 09:30	08/22/16 20:44	5
Cobalt	<0.00040		0.0025	0.00040	mg/L		08/19/16 09:30	08/22/16 20:44	5
Lead	<0.00035		0.0013	0.00035	mg/L		08/19/16 09:30	08/22/16 20:44	5
Lithium	<0.0032		0.0050	0.0032	mg/L		08/19/16 09:30	08/22/16 20:44	5
Molybdenum	<0.00085		0.015	0.00085	mg/L		08/19/16 09:30	08/22/16 20:44	5
Selenium	<0.00024		0.0013	0.00024	mg/L		08/19/16 09:30	08/22/16 20:44	5
Thallium	<0.000085		0.00050	0.000085	mg/L		08/19/16 09:30	08/22/16 20:44	5

Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.000072	J	0.00020	0.000070	mg/L		08/21/16 12:32	08/24/16 11:34	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	52		5.0	3.4	mg/L			08/20/16 16:18	1

Definitions/Glossary

Client: Southern Company
Project/Site: CCR Plant Scherer

TestAmerica Job ID: 400-125959-1
SDG: Ash Pond

Qualifiers

HPLC/IC

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.
E	Result exceeded calibration range.

Metals

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

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
α	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CNF	Contains no Free Liquid
DER	Duplicate error ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision level concentration
MDA	Minimum detectable activity
EDL	Estimated Detection Limit
MDC	Minimum detectable concentration
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
NC	Not Calculated
ND	Not detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RER	Relative error ratio
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)

Lab Chronicle

Client: Southern Company
Project/Site: CCR Plant Scherer

TestAmerica Job ID: 400-125959-1
SDG: Ash Pond

Client Sample ID: SGWA-24

Date Collected: 08/16/16 11:50

Date Received: 08/17/16 10:09

Lab Sample ID: 400-125959-1

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	300.0		1	319972	08/24/16 07:56	KH1	TAL PEN
Total Recoverable	Prep	3005A			319240	08/19/16 09:30	RJB	TAL PEN
Total Recoverable	Analysis	6020		5	319655	08/22/16 20:03	RJB	TAL PEN
Total/NA	Prep	7470A			319456	08/21/16 12:32	DN1	TAL PEN
Total/NA	Analysis	7470A		1	319948	08/24/16 09:57	JAP	TAL PEN
Total/NA	Analysis	SM 2540C		1	319415	08/20/16 16:18	TET	TAL PEN

Client Sample ID: SGWA-3

Date Collected: 08/16/16 15:15

Date Received: 08/17/16 10:09

Lab Sample ID: 400-125959-2

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	300.0		1	319972	08/24/16 08:19	KH1	TAL PEN
Total Recoverable	Prep	3005A			319240	08/19/16 09:30	RJB	TAL PEN
Total Recoverable	Analysis	6020		5	319655	08/22/16 20:08	RJB	TAL PEN
Total/NA	Prep	7470A			319456	08/21/16 12:32	DN1	TAL PEN
Total/NA	Analysis	7470A		1	319948	08/24/16 09:58	JAP	TAL PEN
Total/NA	Analysis	SM 2540C		1	319415	08/20/16 16:18	TET	TAL PEN

Client Sample ID: SGWA-1

Date Collected: 08/16/16 12:02

Date Received: 08/17/16 10:09

Lab Sample ID: 400-125959-3

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	300.0		1	319972	08/24/16 08:42	KH1	TAL PEN
Total Recoverable	Prep	3005A			319240	08/19/16 09:30	RJB	TAL PEN
Total Recoverable	Analysis	6020		5	319655	08/22/16 20:26	RJB	TAL PEN
Total/NA	Prep	7470A			319456	08/21/16 12:32	DN1	TAL PEN
Total/NA	Analysis	7470A		1	319948	08/24/16 10:00	JAP	TAL PEN
Total/NA	Analysis	SM 2540C		1	319415	08/20/16 16:18	TET	TAL PEN

Client Sample ID: SGWA-2

Date Collected: 08/16/16 13:46

Date Received: 08/17/16 10:09

Lab Sample ID: 400-125959-4

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	300.0		1	319972	08/24/16 09:05	KH1	TAL PEN
Total Recoverable	Prep	3005A			319240	08/19/16 09:30	RJB	TAL PEN
Total Recoverable	Analysis	6020		5	319655	08/22/16 20:30	RJB	TAL PEN
Total/NA	Prep	7470A			319456	08/21/16 12:32	DN1	TAL PEN
Total/NA	Analysis	7470A		1	319948	08/24/16 10:01	JAP	TAL PEN
Total/NA	Analysis	SM 2540C		1	319415	08/20/16 16:18	TET	TAL PEN

TestAmerica Pensacola

Lab Chronicle

Client: Southern Company
Project/Site: CCR Plant Scherer

TestAmerica Job ID: 400-125959-1
SDG: Ash Pond

Client Sample ID: DUP-4

Date Collected: 08/16/16 00:00

Date Received: 08/17/16 10:09

Lab Sample ID: 400-125959-5

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	300.0		1	319972	08/24/16 09:28	KH1	TAL PEN
Total Recoverable	Prep	3005A			319240	08/19/16 09:30	RJB	TAL PEN
Total Recoverable	Analysis	6020		5	319655	08/22/16 20:35	RJB	TAL PEN
Total/NA	Prep	7470A			319456	08/21/16 12:32	DN1	TAL PEN
Total/NA	Analysis	7470A		1	319948	08/24/16 10:02	JAP	TAL PEN
Total/NA	Analysis	SM 2540C		1	319415	08/20/16 16:18	TET	TAL PEN

Client Sample ID: SGWA-5

Date Collected: 08/16/16 14:19

Date Received: 08/17/16 10:09

Lab Sample ID: 400-125959-10

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	300.0		1	319972	08/24/16 12:53	KH1	TAL PEN
Total Recoverable	Prep	3005A			319240	08/19/16 09:30	RJB	TAL PEN
Total Recoverable	Analysis	6020		5	319655	08/22/16 20:44	RJB	TAL PEN
Total/NA	Prep	7470A			319456	08/21/16 12:32	DN1	TAL PEN
Total/NA	Analysis	7470A		1	319948	08/24/16 11:34	JAP	TAL PEN
Total/NA	Analysis	SM 2540C		1	319415	08/20/16 16:18	TET	TAL PEN

Laboratory References:

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

QC Association Summary

Client: Southern Company
Project/Site: CCR Plant Scherer

TestAmerica Job ID: 400-125959-1
SDG: Ash Pond

HPLC/IC

Analysis Batch: 319972

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-125959-1	SGWA-24	Total/NA	Water	300.0	
400-125959-2	SGWA-3	Total/NA	Water	300.0	
400-125959-3	SGWA-1	Total/NA	Water	300.0	
400-125959-4	SGWA-2	Total/NA	Water	300.0	
400-125959-5	DUP-4	Total/NA	Water	300.0	
400-125959-10	SGWA-5	Total/NA	Water	300.0	
MB 400-319972/38	Method Blank	Total/NA	Water	300.0	
LCS 400-319972/39	Lab Control Sample	Total/NA	Water	300.0	
LCS 400-319972/40	Lab Control Sample Dup	Total/NA	Water	300.0	
400-125883-B-10 MS	Matrix Spike	Total/NA	Water	300.0	
400-125883-B-10 MSD	Matrix Spike Duplicate	Total/NA	Water	300.0	

Metals

Prep Batch: 319240

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-125959-1	SGWA-24	Total Recoverable	Water	3005A	
400-125959-2	SGWA-3	Total Recoverable	Water	3005A	
400-125959-3	SGWA-1	Total Recoverable	Water	3005A	
400-125959-4	SGWA-2	Total Recoverable	Water	3005A	
400-125959-5	DUP-4	Total Recoverable	Water	3005A	
400-125959-10	SGWA-5	Total Recoverable	Water	3005A	
MB 400-319240/1-A ^5	Method Blank	Total Recoverable	Water	3005A	
LCS 400-319240/2-A ^1	Lab Control Sample	Total Recoverable	Water	3005A	
400-125883-C-2-C MS ^5	Matrix Spike	Total Recoverable	Water	3005A	
400-125883-C-2-D MSD ^5	Matrix Spike Duplicate	Total Recoverable	Water	3005A	

Prep Batch: 319456

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-125959-1	SGWA-24	Total/NA	Water	7470A	
400-125959-2	SGWA-3	Total/NA	Water	7470A	
400-125959-3	SGWA-1	Total/NA	Water	7470A	
400-125959-4	SGWA-2	Total/NA	Water	7470A	
400-125959-5	DUP-4	Total/NA	Water	7470A	
400-125959-10	SGWA-5	Total/NA	Water	7470A	
MB 400-319456/14-A	Method Blank	Total/NA	Water	7470A	
LCS 400-319456/15-A	Lab Control Sample	Total/NA	Water	7470A	
400-125883-C-8-C MS	Matrix Spike	Total/NA	Water	7470A	
400-125883-C-8-D MSD	Matrix Spike Duplicate	Total/NA	Water	7470A	

Analysis Batch: 319655

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-125959-1	SGWA-24	Total Recoverable	Water	6020	319240
400-125959-2	SGWA-3	Total Recoverable	Water	6020	319240
400-125959-3	SGWA-1	Total Recoverable	Water	6020	319240
400-125959-4	SGWA-2	Total Recoverable	Water	6020	319240
400-125959-5	DUP-4	Total Recoverable	Water	6020	319240
400-125959-10	SGWA-5	Total Recoverable	Water	6020	319240
MB 400-319240/1-A ^5	Method Blank	Total Recoverable	Water	6020	319240
LCS 400-319240/2-A ^1	Lab Control Sample	Total Recoverable	Water	6020	319240

TestAmerica Pensacola

QC Association Summary

Client: Southern Company
Project/Site: CCR Plant Scherer

TestAmerica Job ID: 400-125959-1
SDG: Ash Pond

Metals (Continued)

Analysis Batch: 319655 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-125883-C-2-C MS ^5	Matrix Spike	Total Recoverable	Water	6020	319240
400-125883-C-2-D MSD ^5	Matrix Spike Duplicate	Total Recoverable	Water	6020	319240

Analysis Batch: 319948

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-125959-1	SGWA-24	Total/NA	Water	7470A	319456
400-125959-2	SGWA-3	Total/NA	Water	7470A	319456
400-125959-3	SGWA-1	Total/NA	Water	7470A	319456
400-125959-4	SGWA-2	Total/NA	Water	7470A	319456
400-125959-5	DUP-4	Total/NA	Water	7470A	319456
400-125959-10	SGWA-5	Total/NA	Water	7470A	319456
MB 400-319456/14-A	Method Blank	Total/NA	Water	7470A	319456
LCS 400-319456/15-A	Lab Control Sample	Total/NA	Water	7470A	319456
400-125883-C-8-C MS	Matrix Spike	Total/NA	Water	7470A	319456
400-125883-C-8-D MSD	Matrix Spike Duplicate	Total/NA	Water	7470A	319456

General Chemistry

Analysis Batch: 319415

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-125959-1	SGWA-24	Total/NA	Water	SM 2540C	
400-125959-2	SGWA-3	Total/NA	Water	SM 2540C	
400-125959-3	SGWA-1	Total/NA	Water	SM 2540C	
400-125959-4	SGWA-2	Total/NA	Water	SM 2540C	
400-125959-5	DUP-4	Total/NA	Water	SM 2540C	
400-125959-10	SGWA-5	Total/NA	Water	SM 2540C	
MB 400-319415/1	Method Blank	Total/NA	Water	SM 2540C	
LCS 400-319415/2	Lab Control Sample	Total/NA	Water	SM 2540C	
400-125959-1 DU	SGWA-24	Total/NA	Water	SM 2540C	

QC Sample Results

Client: Southern Company
Project/Site: CCR Plant Scherer

TestAmerica Job ID: 400-125959-1
SDG: Ash Pond

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 400-319972/38
Matrix: Water
Analysis Batch: 319972

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<0.89		1.0	0.89	mg/L			08/24/16 03:45	1
Fluoride	<0.082		0.20	0.082	mg/L			08/24/16 03:45	1
Sulfate	<0.70		1.0	0.70	mg/L			08/24/16 03:45	1

Lab Sample ID: LCS 400-319972/39
Matrix: Water
Analysis Batch: 319972

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloride	10.0	9.86		mg/L		99	90 - 110
Fluoride	10.0	10.2		mg/L		102	90 - 110
Sulfate	10.0	9.46		mg/L		95	90 - 110

Lab Sample ID: LCSD 400-319972/40
Matrix: Water
Analysis Batch: 319972

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
Chloride	10.0	9.83		mg/L		98	90 - 110	0	15
Fluoride	10.0	10.3		mg/L		103	90 - 110	1	15
Sulfate	10.0	9.26		mg/L		93	90 - 110	2	15

Lab Sample ID: 400-125883-B-10 MS
Matrix: Water
Analysis Batch: 319972

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	20		10.0	30.2		mg/L		101	80 - 120
Fluoride	0.087	J	10.0	11.0		mg/L		109	80 - 120
Sulfate	260	E	10.0	273	E 4	mg/L		91	80 - 120

Lab Sample ID: 400-125883-B-10 MSD
Matrix: Water
Analysis Batch: 319972

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	20		10.0	30.1		mg/L		100	80 - 120	0	20
Fluoride	0.087	J	10.0	11.0		mg/L		109	80 - 120	0	20
Sulfate	260	E	10.0	279	E 4	mg/L		149	80 - 120	2	20

Method: 6020 - Metals (ICP/MS)

Lab Sample ID: MB 400-319240/1-A ^5
Matrix: Water
Analysis Batch: 319655

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 319240

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0010		0.0025	0.0010	mg/L		08/19/16 09:30	08/22/16 18:11	5
Arsenic	<0.00046		0.0013	0.00046	mg/L		08/19/16 09:30	08/22/16 18:11	5

TestAmerica Pensacola

QC Sample Results

Client: Southern Company
Project/Site: CCR Plant Scherer

TestAmerica Job ID: 400-125959-1
SDG: Ash Pond

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

Lab Sample ID: MB 400-319240/1-A ^5
Matrix: Water
Analysis Batch: 319655

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 319240

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	<0.00049		0.0025	0.00049	mg/L		08/19/16 09:30	08/22/16 18:11	5
Beryllium	<0.00034		0.0025	0.00034	mg/L		08/19/16 09:30	08/22/16 18:11	5
Boron	<0.021		0.050	0.021	mg/L		08/19/16 09:30	08/22/16 18:11	5
Cadmium	<0.00034		0.0025	0.00034	mg/L		08/19/16 09:30	08/22/16 18:11	5
Calcium	<0.13		0.25	0.13	mg/L		08/19/16 09:30	08/22/16 18:11	5
Chromium	<0.0011		0.0025	0.0011	mg/L		08/19/16 09:30	08/22/16 18:11	5
Cobalt	<0.00040		0.0025	0.00040	mg/L		08/19/16 09:30	08/22/16 18:11	5
Lead	<0.00035		0.0013	0.00035	mg/L		08/19/16 09:30	08/22/16 18:11	5
Lithium	<0.0032		0.0050	0.0032	mg/L		08/19/16 09:30	08/22/16 18:11	5
Molybdenum	<0.00085		0.015	0.00085	mg/L		08/19/16 09:30	08/22/16 18:11	5
Selenium	<0.00024		0.0013	0.00024	mg/L		08/19/16 09:30	08/22/16 18:11	5
Thallium	<0.000085		0.00050	0.000085	mg/L		08/19/16 09:30	08/22/16 18:11	5

Lab Sample ID: LCS 400-319240/2-A ^1
Matrix: Water
Analysis Batch: 319655

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 319240

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Antimony	0.0500	0.0539		mg/L		108	80 - 120
Arsenic	0.0500	0.0551		mg/L		110	80 - 120
Barium	0.0500	0.0460		mg/L		92	80 - 120
Beryllium	0.0500	0.0515		mg/L		103	80 - 120
Boron	0.100	0.108		mg/L		108	80 - 120
Cadmium	0.0500	0.0535		mg/L		107	80 - 120
Calcium	5.00	4.71		mg/L		94	80 - 120
Chromium	0.0500	0.0514		mg/L		103	80 - 120
Cobalt	0.0500	0.0507		mg/L		101	80 - 120
Lead	0.0500	0.0507		mg/L		101	80 - 120
Lithium	0.0500	0.0519		mg/L		104	80 - 120
Molybdenum	0.0500	0.0525		mg/L		105	80 - 120
Selenium	0.0500	0.0524		mg/L		105	80 - 120
Thallium	0.0100	0.0103		mg/L		103	80 - 120

Lab Sample ID: 400-125883-C-2-C MS ^5
Matrix: Water
Analysis Batch: 319655

Client Sample ID: Matrix Spike
Prep Type: Total Recoverable
Prep Batch: 319240

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Antimony	<0.0010		0.0500	0.0566		mg/L		113	75 - 125
Arsenic	<0.00046		0.0500	0.0583		mg/L		117	75 - 125
Barium	0.032		0.0500	0.0796		mg/L		95	75 - 125
Beryllium	<0.00034		0.0500	0.0536		mg/L		107	75 - 125
Boron	0.023	J	0.100	0.146		mg/L		123	75 - 125
Cadmium	<0.00034		0.0500	0.0566		mg/L		113	75 - 125
Calcium	26		5.00	31.0	4	mg/L		103	75 - 125
Chromium	<0.0011		0.0500	0.0528		mg/L		106	75 - 125
Cobalt	<0.00040		0.0500	0.0518		mg/L		104	75 - 125
Lead	<0.00035		0.0500	0.0528		mg/L		106	75 - 125
Lithium	0.0059		0.0500	0.0597		mg/L		108	75 - 125

TestAmerica Pensacola

QC Sample Results

Client: Southern Company
Project/Site: CCR Plant Scherer

TestAmerica Job ID: 400-125959-1
SDG: Ash Pond

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

Lab Sample ID: 400-125883-C-2-C MS ^5
Matrix: Water
Analysis Batch: 319655

Client Sample ID: Matrix Spike
Prep Type: Total Recoverable
Prep Batch: 319240

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Molybdenum	0.0013	J	0.0500	0.0555		mg/L		108	75 - 125
Selenium	<0.00024		0.0500	0.0536		mg/L		107	75 - 125
Thallium	<0.000085		0.0100	0.0107		mg/L		107	75 - 125

Lab Sample ID: 400-125883-C-2-D MSD ^5
Matrix: Water
Analysis Batch: 319655

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total Recoverable
Prep Batch: 319240

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	Limit
Antimony	<0.0010		0.0500	0.0539		mg/L		108	75 - 125	5	20
Arsenic	<0.00046		0.0500	0.0570		mg/L		114	75 - 125	2	20
Barium	0.032		0.0500	0.0764		mg/L		89	75 - 125	4	20
Beryllium	<0.00034		0.0500	0.0526		mg/L		105	75 - 125	2	20
Boron	0.023	J	0.100	0.139		mg/L		116	75 - 125	5	20
Cadmium	<0.00034		0.0500	0.0563		mg/L		113	75 - 125	1	20
Calcium	26		5.00	31.0	4	mg/L		102	75 - 125	0	20
Chromium	<0.0011		0.0500	0.0518		mg/L		104	75 - 125	2	20
Cobalt	<0.00040		0.0500	0.0521		mg/L		104	75 - 125	1	20
Lead	<0.00035		0.0500	0.0518		mg/L		104	75 - 125	2	20
Lithium	0.0059		0.0500	0.0571		mg/L		102	75 - 125	4	20
Molybdenum	0.0013	J	0.0500	0.0537		mg/L		105	75 - 125	3	20
Selenium	<0.00024		0.0500	0.0534		mg/L		107	75 - 125	0	20
Thallium	<0.000085		0.0100	0.0105		mg/L		105	75 - 125	2	20

Method: 7470A - Mercury (CVAA)

Lab Sample ID: MB 400-319456/14-A
Matrix: Water
Analysis Batch: 319948

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 319456

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.000070		0.00020	0.000070	mg/L		08/21/16 12:32	08/24/16 09:31	1

Lab Sample ID: LCS 400-319456/15-A
Matrix: Water
Analysis Batch: 319948

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 319456

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Mercury	0.00101	0.00103		mg/L		103	80 - 120

Lab Sample ID: 400-125883-C-8-C MS
Matrix: Water
Analysis Batch: 319948

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 319456

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Mercury	<0.000070		0.00201	0.00195		mg/L		97	80 - 120

TestAmerica Pensacola

QC Sample Results

Client: Southern Company
Project/Site: CCR Plant Scherer

TestAmerica Job ID: 400-125959-1
SDG: Ash Pond

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

Lab Sample ID: 400-125883-C-8-D MSD
Matrix: Water
Analysis Batch: 319948

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA
Prep Batch: 319456

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Mercury	<0.000070		0.00201	0.00194		mg/L		96	80 - 120	1	20

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

Lab Sample ID: MB 400-319415/1
Matrix: Water
Analysis Batch: 319415

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	<3.4		5.0	3.4	mg/L			08/20/16 16:18	1

Lab Sample ID: LCS 400-319415/2
Matrix: Water
Analysis Batch: 319415

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

Lab Sample ID: 400-125959-1 DU
Matrix: Water
Analysis Batch: 319415

Client Sample ID: SGWA-24
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Total Dissolved Solids	110		110		mg/L		2	5

Chain of Custody Record

Client Information Sampler: M. Steffler Client Contact: Joju Abraham Southern Company Address: 241 Ralph McGill Blvd SE B10185 City: Allanta State, Zip: GA, 30308 Phone: 404-506-7239 Email: JAbraham@southernco.com Project Name: CCR - Scherer Site: Plant Scherer		Lab PM: Whitmire, Cheyenne R E-Mail: cheyenne.whitmire@testamericainc.com Carrier Tracking No(s): COC No: 400-57303-24790.6 Page: Job #:	
Analysis Requested Due Date Requested: TAT Requested (days): Standard TAT PO #: GPC10624814 WO #: Project #: 40007041 SSCW#:		Preservation Codes: A - HCl B - NaOH C - Zn Acetate D - Nitric Acid E - NaHSO4 F - MeOH G - Anchlor H - Ascorbic Acid I - Ice J - DI Water K - EDTA L - EDA Other: M - Hexane N - None O - ASNBC2 P - Na2OAS Q - Na2SO3 R - Na2S2O3 S - H2SO4 T - TSP Dodecylhydrate U - Acetone V - MCAA W - pH 4.5 Z - other (specify)	
Sample Identification Sample Date: 8/16/16 Sample Time: 11:50 G Matrix: Water Sample Type: (C=comp, G=grab) G Preservation Code:		Special Instructions/Note: 400-125959 COC 	
Possible Hazard Identification <input type="checkbox"/> Non-Hazard <input type="checkbox"/> Flammable <input type="checkbox"/> Skin Irritant <input type="checkbox"/> Poison B <input type="checkbox"/> Unknown <input type="checkbox"/> Radiological		Sample Disposal (A fee may be assessed if samples are retained longer than 1 month) <input type="checkbox"/> Return To Client <input type="checkbox"/> Disposal By Lab <input type="checkbox"/> Archive For _____ Months	
Deliverable Requested: I, II, III, IV, Other (specify)		Special Instructions/QC Requirements:	
Empty Kit Relinquished by: Relinquished by: [Signature] Date: 8-16-16 1030 Company: Kelan		Method of Shipment: Received by: [Signature] Date/Time: 8/16/16 1009 Company: [Signature]	
Custody Seals Intact: A Yes A No		Cooler Temperature(s) °C and Other Remarks: 0.6°C 1.5°C 12.5	



Chain of Custody Record

Client Information
 Client Contact: Joju Abraham
 Company: Southern Company
 Address: 241 Ralph McGill Blvd SE B10185
 City: Atlanta
 State, Zip: GA, 30308
 Phone: 404-506-7239
 Email: JAbraham@southernco.com
 Project Name: CCR - Scherer
 Site: Plant Scherer

Sample Information
 Sampler: Ron Hilliard
 Lab PM: Whitire, Cheyenne R
 Phone: 770-315-9694
 E-Mail: cheyenne.whitire@testamericainc.com

Analysis Requested

Sample Identification	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=wastewat, etc.)	Field Filtered Sample (Yes or No)	Performance (Yes or No)	TDS - SM 2540C: Cl, F, SO4 - EPA 300	Metals Appendix III & IV - EPA 6020 & EPA 7470	Radium 226 & 228 - SW-646 9315 & 9320
SGWA-1	8/16/16	13:02	G	Water			1		1
SGWA-2	8/16/16	13:46	G	Water			1		1
DUP-2	8/16/16		G	Water			1		1

Special Instructions/Note:

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
 Other:

M - Hexane
 N - None
 O - AsNaO2
 P - Na2O4S
 Q - Na2SO3
 R - Na2SO3
 S - H2SO4
 T - TSP Dodecahydrate
 U - Acetone
 V - MCAA
 W - pH 4-5
 Z - other (specify)

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: Non-Hazard Flammable Skin Irritant Unknown Radiological

Empty Kit Relinquished by:

Relinquished by: Z. Miller Date/Time: 8/16/16 18:30 Company: AECOM
 Relinquished by: JD Date/Time: 8/17/16 18:30 Company: AECOM
 Relinquished by: _____ Date/Time: _____ Company: _____

Custody Seals Intact: Yes No
 Cooler Temperature(s) °C and Other Remarks: 0.6°C 1.5°C 12.5



Chain of Custody Record

Client Information Client Contact: <i>Charles Watson</i> Phone: <i>404 273 7689</i> E-Mail: <i>cheyenne.whitire@testamericainc.com</i>		Lab PM: <i>Whitire, Cheyenne R</i> Camer Tracking No(s):		COC No: <i>400-57303-24190.6</i> Page: Job #:	
Company: Southern Company Address: <i>241 Ralph McGill Blvd SE B10185</i> City: <i>Atlanta</i> State, Zip: <i>GA, 30308</i> Phone: <i>404-506-7239</i> Email: <i>JAbraham@southernco.com</i> Project Name: <i>40007041</i> CCR - Scherer Site: <i>Plant Scherer</i>		Analysis Requested Due Date Requested: TAT Requested (days): <i>Standard TAT</i> PO #: <i>GPC10624814</i> WO #:		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 Other:	
Sample Identification <i>SG-WA-5</i>		Sample Date <i>8/16/16</i>	Sample Time <i>1419</i>	Sample Type (C=Comp, G=grab) <i>G</i>	Matrix (W=water, S=solid, O=soil, I=Inert, A=acid) <i>Water</i>
Field Filtered Sample (Yes or No) <input checked="" type="checkbox"/>		Perform MS/MSD (Yes or No) <input checked="" type="checkbox"/>		Total Number of Containers <input checked="" type="checkbox"/>	
TDS - SM 2640C; Cl,F,SO4 - EPA 300		Metals Appendix III & IV - EPA 6020 & EPA 7470		Radium 226 & 228 - SW-046 9316 & 9320	
Special Instructions/Note: _____		Special Instructions/Note: _____		Special Instructions/Note: _____	
Sample Disposal (A fee may be assessed if samples are retained longer than 1 month) <input type="checkbox"/> Return To Client <input type="checkbox"/> Disposal By Lab <input type="checkbox"/> Archive For _____ Months					
Deliverable Requested: I, II, III, IV, Other (specify) <input type="checkbox"/> Non-Hazard <input type="checkbox"/> Flammable <input type="checkbox"/> Skin Irritant <input type="checkbox"/> Poison B <input type="checkbox"/> Unknown <input type="checkbox"/> Radiological					
Empty Kit Relinquished by:		Date:		Method of Shipment:	
Relinquished by: <i>[Signature]</i>		Date/Time: <i>8/16/16 1530</i>		Received by: <i>[Signature]</i>	
Relinquished by:		Date/Time:		Received by: <i>[Signature]</i>	
Relinquished by:		Date/Time:		Received by:	
Custody Seal No.:		Cooler Temperature (°C) and Other Remarks: <i>0.6c 1.5c 12.5</i>		Company: <i>AECON</i>	



Login Sample Receipt Checklist

Client: Southern Company

Job Number: 400-125959-1

SDG Number: Ash Pond

Login Number: 125959

List Number: 1

Creator: Siddoway, Benjamin

List Source: TestAmerica Pensacola

Question	Answer	Comment
Radioactivity wasn't checked or is \leq background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	N/A	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	0.6°C, 1.5°C IR-5
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 <math><6\text{mm}</math> (1/4").	N/A	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	



Certification Summary

Client: Southern Company
Project/Site: CCR Plant Scherer

TestAmerica Job ID: 400-125959-1
SDG: Ash Pond

Laboratory: TestAmerica Pensacola

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

Authority	Program	EPA Region	Certification ID	Expiration Date
Alabama	State Program	4	40150	06-30-17
Arizona	State Program	9	AZ0710	01-11-17
Arkansas DEQ	State Program	6	88-0689	09-01-16
California	ELAP	9	2510	03-31-18
Florida	NELAP	4	E81010	06-30-17
Georgia	State Program	4	N/A	06-30-17
Illinois	NELAP	5	200041	10-09-16
Iowa	State Program	7	367	07-31-16 *
Kansas	NELAP	7	E-10253	10-31-16
Kentucky (UST)	State Program	4	53	06-30-17
Kentucky (WW)	State Program	4	98030	12-31-16
Louisiana	NELAP	6	30976	06-30-17
Maryland	State Program	3	233	09-30-17
Massachusetts	State Program	1	M-FL094	06-30-17
Michigan	State Program	5	9912	05-06-17
New Jersey	NELAP	2	FL006	06-30-17
North Carolina (WW/SW)	State Program	4	314	12-31-16
Oklahoma	State Program	6	9810	08-31-17
Pennsylvania	NELAP	3	68-00467	01-31-17
Rhode Island	State Program	1	LAO00307	12-30-16
South Carolina	State Program	4	96026	06-30-16 *
Tennessee	State Program	4	TN02907	06-30-17
Texas	NELAP	6	T104704286-15-9	09-30-16
USDA	Federal		P330-16-00172	05-24-19
Virginia	NELAP	3	460166	06-14-17
Washington	State Program	10	C915	05-15-17
West Virginia DEP	State Program	3	136	08-31-16

* Certification renewal pending - certification considered valid.

TestAmerica Pensacola

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

TestAmerica Laboratories, Inc.

TestAmerica Pensacola

3355 McLemore Drive

Pensacola, FL 32514

Tel: (850)474-1001

TestAmerica Job ID: 400-125959-2

TestAmerica Sample Delivery Group: Ash Pond

Client Project/Site: CCR Plant Scherer

For:

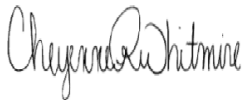
Southern Company

241 Ralph McGill Blvd SE

B10185

Atlanta, Georgia 30308

Attn: Joju Abraham



Authorized for release by:

9/16/2016 6:16:22 PM

Cheyenne Whitmire, Project Manager II

(850)471-6222

cheyenne.whitmire@testamericainc.com

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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.

1

2

3

4

5

6

7

8

9

10

11

12

13



Table of Contents

Cover Page	1
Table of Contents	2
Case Narrative	3
Method Summary	4
Sample Summary	5
Client Sample Results	6
Definitions	12
Chronicle	13
QC Association	15
QC Sample Results	16
Chain of Custody	18
Receipt Checklists	21
Certification Summary	22

Case Narrative

Client: Southern Company
Project/Site: CCR Plant Scherer

TestAmerica Job ID: 400-125959-2
SDG: Ash Pond

Job ID: 400-125959-2

Laboratory: TestAmerica Pensacola

Narrative

Job Narrative
400-125959-2

RAD

Method(s) PrecSep_0: Insufficient sample volume was available to perform a sample duplicate (DUP) associated with preparation batch 160-266001.

Method(s) PrecSep-21: Insufficient sample volume was available to perform a sample duplicate (DUP) associated with preparation batch 160-265999.

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

Method Summary

Client: Southern Company
Project/Site: CCR Plant Scherer

TestAmerica Job ID: 400-125959-2
SDG: Ash Pond

Method	Method Description	Protocol	Laboratory
9315	Radium-226 (GFPC)	SW846	TAL SL
9320	Radium-228 (GFPC)	SW846	TAL SL
Ra226_Ra228	Combined Radium-226 and Radium-228	TAL-STL	TAL SL

Protocol References:

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:

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



Sample Summary

Client: Southern Company
Project/Site: CCR Plant Scherer

TestAmerica Job ID: 400-125959-2
SDG: Ash Pond

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
400-125959-1	SGWA-24	Water	08/16/16 11:50	08/17/16 10:09
400-125959-2	SGWA-3	Water	08/16/16 15:15	08/17/16 10:09
400-125959-3	SGWA-1	Water	08/16/16 12:02	08/17/16 10:09
400-125959-4	SGWA-2	Water	08/16/16 13:46	08/17/16 10:09
400-125959-5	DUP-4	Water	08/16/16 00:00	08/17/16 10:09
400-125959-10	SGWA-5	Water	08/16/16 14:19	08/17/16 10:09

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- 12
- 13

Client Sample Results

Client: Southern Company
Project/Site: CCR Plant Scherer

TestAmerica Job ID: 400-125959-2
SDG: Ash Pond

Client Sample ID: SGWA-24

Date Collected: 08/16/16 11:50

Date Received: 08/17/16 10:09

Lab Sample ID: 400-125959-1

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	0.0569	U	0.0613	0.0615	1.00	0.0993	pCi/L	08/22/16 15:06	09/13/16 07:40	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	88.3		40 - 110					08/22/16 15:06	09/13/16 07:40	1

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.106	U	0.297	0.297	1.00	0.509	pCi/L	08/22/16 15:43	09/07/16 16:40	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	88.3		40 - 110					08/22/16 15:43	09/07/16 16:40	1
Y Carrier	87.5		40 - 110					08/22/16 15:43	09/07/16 16:40	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	0.162	U	0.303	0.303	5.00	0.509	pCi/L		09/15/16 15:32	1

Client Sample Results

Client: Southern Company
Project/Site: CCR Plant Scherer

TestAmerica Job ID: 400-125959-2
SDG: Ash Pond

Client Sample ID: SGWA-3
Date Collected: 08/16/16 15:15
Date Received: 08/17/16 10:09

Lab Sample ID: 400-125959-2
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	0.0649	U	0.0622	0.0624	1.00	0.0989	pCi/L	08/22/16 15:06	09/13/16 07:40	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	93.4		40 - 110					08/22/16 15:06	09/13/16 07:40	1

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.103	U	0.237	0.237	1.00	0.407	pCi/L	08/22/16 15:43	09/07/16 16:40	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	93.4		40 - 110					08/22/16 15:43	09/07/16 16:40	1
Y Carrier	86.4		40 - 110					08/22/16 15:43	09/07/16 16:40	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	0.168	U	0.245	0.245	5.00	0.407	pCi/L		09/15/16 15:32	1

Client Sample Results

Client: Southern Company
Project/Site: CCR Plant Scherer

TestAmerica Job ID: 400-125959-2
SDG: Ash Pond

Client Sample ID: SGWA-1

Lab Sample ID: 400-125959-3

Date Collected: 08/16/16 12:02

Matrix: Water

Date Received: 08/17/16 10:09

Method: 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.0968		0.0628	0.0634	1.00	0.0905	pCi/L	08/22/16 15:06	09/13/16 07:40	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	93.2		40 - 110					08/22/16 15:06	09/13/16 07:40	1

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.0334	U	0.257	0.257	1.00	0.452	pCi/L	08/22/16 15:43	09/07/16 16:40	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	93.2		40 - 110					08/22/16 15:43	09/07/16 16:40	1
Y Carrier	84.9		40 - 110					08/22/16 15:43	09/07/16 16:40	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	0.130	U	0.265	0.265	5.00	0.452	pCi/L		09/15/16 15:32	1

Client Sample Results

Client: Southern Company
Project/Site: CCR Plant Scherer

TestAmerica Job ID: 400-125959-2
SDG: Ash Pond

Client Sample ID: SGWA-2

Lab Sample ID: 400-125959-4

Date Collected: 08/16/16 13:46

Matrix: Water

Date Received: 08/17/16 10:09

Method: 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.0680	U	0.0636	0.0639	1.00	0.0999	pCi/L	08/22/16 15:06	09/13/16 07:40	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	78.3		40 - 110					08/22/16 15:06	09/13/16 07:40	1

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.553		0.356	0.359	1.00	0.553	pCi/L	08/22/16 15:43	09/07/16 16:40	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	78.3		40 - 110					08/22/16 15:43	09/07/16 16:40	1
Y Carrier	84.9		40 - 110					08/22/16 15:43	09/07/16 16:40	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	0.621		0.362	0.365	5.00	0.553	pCi/L		09/15/16 15:32	1

Client Sample Results

Client: Southern Company
Project/Site: CCR Plant Scherer

TestAmerica Job ID: 400-125959-2
SDG: Ash Pond

Client Sample ID: DUP-4

Date Collected: 08/16/16 00:00

Date Received: 08/17/16 10:09

Lab Sample ID: 400-125959-5

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	0.0331	U	0.0502	0.0503	1.00	0.0859	pCi/L	08/22/16 15:06	09/13/16 07:40	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	86.3		40 - 110					08/22/16 15:06	09/13/16 07:40	1

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.305	U	0.257	0.259	1.00	0.410	pCi/L	08/22/16 15:43	09/07/16 16:40	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	86.3		40 - 110					08/22/16 15:43	09/07/16 16:40	1
Y Carrier	90.1		40 - 110					08/22/16 15:43	09/07/16 16:40	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	0.338	U	0.262	0.264	5.00	0.410	pCi/L		09/15/16 15:32	1

Client Sample Results

Client: Southern Company
Project/Site: CCR Plant Scherer

TestAmerica Job ID: 400-125959-2
SDG: Ash Pond

Client Sample ID: SGWA-5

Lab Sample ID: 400-125959-10

Date Collected: 08/16/16 14:19

Matrix: Water

Date Received: 08/17/16 10:09

Method: 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.0819	U	0.0572	0.0577	1.00	0.0825	pCi/L	08/22/16 15:06	09/13/16 07:41	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	95.2		40 - 110					08/22/16 15:06	09/13/16 07:41	1

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.143	U	0.214	0.214	1.00	0.359	pCi/L	08/22/16 15:43	09/07/16 16:40	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	95.2		40 - 110					08/22/16 15:43	09/07/16 16:40	1
Y Carrier	89.3		40 - 110					08/22/16 15:43	09/07/16 16:40	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	0.224	U	0.221	0.222	5.00	0.359	pCi/L		09/15/16 15:32	1

Definitions/Glossary

Client: Southern Company
Project/Site: CCR Plant Scherer

TestAmerica Job ID: 400-125959-2
SDG: Ash Pond

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
CNF	Contains no Free Liquid
DER	Duplicate error ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision level concentration
MDA	Minimum detectable activity
EDL	Estimated Detection Limit
MDC	Minimum detectable concentration
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
NC	Not Calculated
ND	Not detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RER	Relative error ratio
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)

Lab Chronicle

Client: Southern Company
Project/Site: CCR Plant Scherer

TestAmerica Job ID: 400-125959-2
SDG: Ash Pond

Client Sample ID: SGWA-24

Date Collected: 08/16/16 11:50

Date Received: 08/17/16 10:09

Lab Sample ID: 400-125959-1

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			265999	08/22/16 15:06	MCJ	TAL SL
Total/NA	Analysis	9315		1	269331	09/13/16 07:40	KLS	TAL SL
Total/NA	Prep	PrecSep_0			266001	08/22/16 15:43	MCJ	TAL SL
Total/NA	Analysis	9320		1	268304	09/07/16 16:40	CMA	TAL SL
Total/NA	Analysis	Ra226_Ra228		1	270000	09/15/16 15:32	RTM	TAL SL

Client Sample ID: SGWA-3

Date Collected: 08/16/16 15:15

Date Received: 08/17/16 10:09

Lab Sample ID: 400-125959-2

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			265999	08/22/16 15:06	MCJ	TAL SL
Total/NA	Analysis	9315		1	269331	09/13/16 07:40	KLS	TAL SL
Total/NA	Prep	PrecSep_0			266001	08/22/16 15:43	MCJ	TAL SL
Total/NA	Analysis	9320		1	268304	09/07/16 16:40	CMA	TAL SL
Total/NA	Analysis	Ra226_Ra228		1	270000	09/15/16 15:32	RTM	TAL SL

Client Sample ID: SGWA-1

Date Collected: 08/16/16 12:02

Date Received: 08/17/16 10:09

Lab Sample ID: 400-125959-3

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			265999	08/22/16 15:06	MCJ	TAL SL
Total/NA	Analysis	9315		1	269331	09/13/16 07:40	KLS	TAL SL
Total/NA	Prep	PrecSep_0			266001	08/22/16 15:43	MCJ	TAL SL
Total/NA	Analysis	9320		1	268304	09/07/16 16:40	CMA	TAL SL
Total/NA	Analysis	Ra226_Ra228		1	270000	09/15/16 15:32	RTM	TAL SL

Client Sample ID: SGWA-2

Date Collected: 08/16/16 13:46

Date Received: 08/17/16 10:09

Lab Sample ID: 400-125959-4

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			265999	08/22/16 15:06	MCJ	TAL SL
Total/NA	Analysis	9315		1	269331	09/13/16 07:40	KLS	TAL SL
Total/NA	Prep	PrecSep_0			266001	08/22/16 15:43	MCJ	TAL SL
Total/NA	Analysis	9320		1	268304	09/07/16 16:40	CMA	TAL SL
Total/NA	Analysis	Ra226_Ra228		1	270000	09/15/16 15:32	RTM	TAL SL

Lab Chronicle

Client: Southern Company
Project/Site: CCR Plant Scherer

TestAmerica Job ID: 400-125959-2
SDG: Ash Pond

Client Sample ID: DUP-4

Date Collected: 08/16/16 00:00

Date Received: 08/17/16 10:09

Lab Sample ID: 400-125959-5

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			265999	08/22/16 15:06	MCJ	TAL SL
Total/NA	Analysis	9315		1	269331	09/13/16 07:40	KLS	TAL SL
Total/NA	Prep	PrecSep_0			266001	08/22/16 15:43	MCJ	TAL SL
Total/NA	Analysis	9320		1	268304	09/07/16 16:40	CMA	TAL SL
Total/NA	Analysis	Ra226_Ra228		1	270000	09/15/16 15:32	RTM	TAL SL

Client Sample ID: SGWA-5

Date Collected: 08/16/16 14:19

Date Received: 08/17/16 10:09

Lab Sample ID: 400-125959-10

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			265999	08/22/16 15:06	MCJ	TAL SL
Total/NA	Analysis	9315		1	269331	09/13/16 07:41	KLS	TAL SL
Total/NA	Prep	PrecSep_0			266001	08/22/16 15:43	MCJ	TAL SL
Total/NA	Analysis	9320		1	268304	09/07/16 16:40	CMA	TAL SL
Total/NA	Analysis	Ra226_Ra228		1	270000	09/15/16 15:32	RTM	TAL SL

Laboratory References:

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

QC Association Summary

Client: Southern Company
Project/Site: CCR Plant Scherer

TestAmerica Job ID: 400-125959-2
SDG: Ash Pond

Rad

Prep Batch: 265999

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-125959-1	SGWA-24	Total/NA	Water	PrecSep-21	
400-125959-2	SGWA-3	Total/NA	Water	PrecSep-21	
400-125959-3	SGWA-1	Total/NA	Water	PrecSep-21	
400-125959-4	SGWA-2	Total/NA	Water	PrecSep-21	
400-125959-5	DUP-4	Total/NA	Water	PrecSep-21	
400-125959-10	SGWA-5	Total/NA	Water	PrecSep-21	
MB 160-265999/1-A	Method Blank	Total/NA	Water	PrecSep-21	
LCS 160-265999/2-A	Lab Control Sample	Total/NA	Water	PrecSep-21	
LCSD 160-265999/3-A	Lab Control Sample Dup	Total/NA	Water	PrecSep-21	

Prep Batch: 266001

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-125959-1	SGWA-24	Total/NA	Water	PrecSep_0	
400-125959-2	SGWA-3	Total/NA	Water	PrecSep_0	
400-125959-3	SGWA-1	Total/NA	Water	PrecSep_0	
400-125959-4	SGWA-2	Total/NA	Water	PrecSep_0	
400-125959-5	DUP-4	Total/NA	Water	PrecSep_0	
400-125959-10	SGWA-5	Total/NA	Water	PrecSep_0	
MB 160-266001/1-A	Method Blank	Total/NA	Water	PrecSep_0	
LCS 160-266001/2-A	Lab Control Sample	Total/NA	Water	PrecSep_0	
LCSD 160-266001/3-A	Lab Control Sample Dup	Total/NA	Water	PrecSep_0	

QC Sample Results

Client: Southern Company
Project/Site: CCR Plant Scherer

TestAmerica Job ID: 400-125959-2
SDG: Ash Pond

Method: 9315 - Radium-226 (GFPC)

Lab Sample ID: MB 160-265999/1-A
Matrix: Water
Analysis Batch: 269321

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 265999

Analyte	MB MB		Count	Total	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
	Result	Qualifier	Uncert. (2σ+/-)	Uncert. (2σ+/-)						
Radium-226	0.02886	U	0.0463	0.0464	1.00	0.0801	pCi/L	08/22/16 15:06	09/13/16 07:36	1
Carrier	MB MB		Limits		Prepared	Analyzed	Dil Fac			
Ba Carrier	%Yield	Qualifier	Limits							
Ba Carrier	87.5		40 - 110		08/22/16 15:06	09/13/16 07:36	1			

Lab Sample ID: LCS 160-265999/2-A
Matrix: Water
Analysis Batch: 269321

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 265999

Analyte	Spike Added	LCS Result	LCS Qual	Total	RL	MDC	Unit	%Rec	%Rec. Limits
				Uncert. (2σ+/-)					
Radium-226	11.2	14.12		1.38	1.00	0.0820	pCi/L	127	68 - 137
Carrier	LCS LCS		Limits		Prepared	Analyzed	Dil Fac		
Ba Carrier	%Yield	Qualifier	Limits						
Ba Carrier	90.9		40 - 110						

Lab Sample ID: LCSD 160-265999/3-A
Matrix: Water
Analysis Batch: 269321

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 265999

Analyte	Spike Added	LCSD Result	LCSD Qual	Total	RL	MDC	Unit	%Rec	%Rec. Limits	RER	RER Limit
				Uncert. (2σ+/-)							
Radium-226	11.2	13.62		1.33	1.00	0.0714	pCi/L	122	68 - 137	0.18	1
Carrier	LCSD LCSD		Limits		Prepared	Analyzed	Dil Fac				
Ba Carrier	%Yield	Qualifier	Limits								
Ba Carrier	94.6		40 - 110								

Method: 9320 - Radium-228 (GFPC)

Lab Sample ID: MB 160-266001/1-A
Matrix: Water
Analysis Batch: 268311

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 266001

Analyte	MB MB		Count	Total	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
	Result	Qualifier	Uncert. (2σ+/-)	Uncert. (2σ+/-)						
Radium-228	0.08754	U	0.237	0.237	1.00	0.412	pCi/L	08/22/16 15:43	09/07/16 16:49	1
Carrier	MB MB		Limits		Prepared	Analyzed	Dil Fac			
Ba Carrier	%Yield	Qualifier	Limits							
Ba Carrier	87.5		40 - 110		08/22/16 15:43	09/07/16 16:49	1			
Y Carrier	MB MB		Limits		Prepared	Analyzed	Dil Fac			
Y Carrier	%Yield	Qualifier	Limits							
Y Carrier	80.7		40 - 110		08/22/16 15:43	09/07/16 16:49	1			

QC Sample Results

Client: Southern Company
 Project/Site: CCR Plant Scherer

TestAmerica Job ID: 400-125959-2
 SDG: Ash Pond

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

Lab Sample ID: LCS 160-266001/2-A
Matrix: Water
Analysis Batch: 268311

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 266001

Analyte	Spike Added	LCS Result	LCS Qual	Total Uncert. (2σ+/-)	RL	MDC	Unit	%Rec	%Rec. Limits
Radium-228	14.6	16.56		1.78	1.00	0.477	pCi/L	113	56 - 140

Carrier	LCS %Yield	LCS Qualifier	Limits
Ba Carrier	90.9		40 - 110
Y Carrier	82.2		40 - 110

Lab Sample ID: LCSD 160-266001/3-A
Matrix: Water
Analysis Batch: 268311

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 266001

Analyte	Spike Added	LCSD Result	LCSD Qual	Total Uncert. (2σ+/-)	RL	MDC	Unit	%Rec	%Rec. Limits	RER	Limit
Radium-228	14.6	16.67		1.79	1.00	0.436	pCi/L	114	56 - 140	0.03	1

Carrier	LCSD %Yield	LCSD Qualifier	Limits
Ba Carrier	94.6		40 - 110
Y Carrier	81.5		40 - 110

Chain of Custody Record

Client Information		Lab PM: Whitmire, Cheyenne R		Carrier Tracking No(s):		COC No: 400-57303-24790.6	
Client Contact: Joju Abraham		E-Mail: cheyenne.whitmire@testamericainc.com		Page:			
Company: Southern Company		Due Date Requested:		Job #:			
Address: 241 Ralph McGill Blvd SE B10185		TAT Requested (days):		Preservation Codes:			
City: Allanta		Standard TAT		A - HCl		M - Hexane	
State, Zip: GA, 30308		PO #: GPC10624814		B - NaOH		N - None	
Phone: 404-506-7239		WO #:		C - Zn Acetate		O - AsNBC2	
Email: JAbraham@southernco.com		Project #: 40007041		D - Nitric Acid		P - Na2CO3	
Project Name: CCR - Scherer		SSCW#:		E - NaHSO4		Q - Na2SO3	
Site: Plant Scherer		Sample Date		F - MeOH		R - Na2S2O3	
		Sample Time		G - Amchlor		S - H2SO4	
		Sample Type (C=comp, G=grab)		H - Ascorbic Acid		T - TSP Dodecylhydrate	
		Matrix (W=water, S=solid, O=wastewat, BT=bi-tissue, A=air)		I - Ice		U - Acetone	
Sample Identification		Preservation Code		J - DI Water		V - MCAA	
SGWA-24		8/16/16 11:50 G		K - EDTA		W - pH 4.5	
SGWA-3		8/16/16 15:15 G		L - EDA		Z - other (specify)	
				Other:			
				Special Instructions/Note:			
				Total Number of Containers		3	
				Perform MS/MSD (Yes or No)			
				Field Filtered Sample (Yes or No)			
				TDS - SM 2640C : Cl,F,S04 - EPA 300			
				Metals Appendix III & IV - EPA 6020 & EPA 7470			
				Radium 226 & 228 - SW-946 9316 & 9320			
				Analysis Requested			
				Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)			
				<input type="checkbox"/> Return To Client		<input type="checkbox"/> Archive For	
				Special Instructions/QC Requirements:		Months	
				Date:		Method of Shipment:	
				Received by:		Company:	
				Date/Time:		Date/Time:	
				Received by:		Company:	
				Date/Time:		Date/Time:	
				Received by:		Company:	
				Date/Time:		Date/Time:	
				Cooler Temperature(s) °C and Other Remarks:		0.6°C 1.5°C 12.5	



Chain of Custody Record

Client Information
 Company: Southern Company
 Address: 241 Ralph McGill Blvd SE B10185
 City: Atlanta
 State, Zip: GA, 30308
 Phone: 404-506-7239
 Email: JAbraham@southernco.com
 Project Name: CCR - Scherer
 Site: *Plant Scherer*

Sampler: *Ron Hilliard*
 Lab PM: Whitmore, Cheyenne R
 Phone: *770-315-9694*
 E-Mail: cheyenne.whitmore@testamericainc.com

Due Date Requested:
 TAT Requested (days): *Standard TAT*
 PO #: GPC10624814
 WO #: [Blank]
 Project #: 40007041
 SSOW#: [Blank]

Carrier Tracking No(s):
 COC No: 400-57303-24790.6
 Page: [Blank]
 Job #: [Blank]

Sample Identification	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=wastewater, B=breathable, A=air)	Field Filtered Sample (Yes or No)	Performance/MSD (Yes or No)	TDS - SM 2540C; Cl ₂ F ₂ S ₄ - EPA 300	Metals Appendix III & IV - EPA 6020 & EPA 7470	Radium 226 & 228 - SW-646 9316 & 9320	Analysis Requested	Preservation Codes:	Special Instructions/Note:
<i>SGWA-1</i>	<i>8/16/16</i>	<i>13:02</i>	<i>G</i>	Water	X	X					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 Other:	
<i>SGWA-2</i>	<i>8/16/16</i>	<i>13:46</i>	<i>G</i>	Water	X	X						
<i>DUP-2</i>	<i>8/16/16</i>	-	<i>G</i>	Water	X	X						
				Water	X	X						
				Water	X	X						
				Water	X	X						
				Water	X	X						
				Water	X	X						
				Water	X	X						
				Water	X	X						
				Water	X	X						
				Water	X	X						
				Water	X	X						
				Water	X	X						
				Water	X	X						
				Water	X	X						
				Water	X	X						
				Water	X	X						

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
 Return To Client Disposal By Lab Archive For _____ Months
 Special Instructions/QC Requirements:

Empty Kit Reimquished by: [Blank]
 Date: [Blank]

Relinquished by: *[Signature]*
 Date/Time: *8/16/16 18:30*
 Company: *ARECOM*

Relinquished by: *[Signature]*
 Date/Time: *8/17/16 18:30*
 Company: *ARECOM*

Relinquished by: *[Signature]*
 Date/Time: [Blank]
 Company: [Blank]

Custody Seals intact: Yes No
 Cooler Temperature(s) °C and Other Remarks: *0.6°C 1.5°C 1.5°C*



Chain of Custody Record

Client Information Client Contact: <i>Charles Watson</i> Phone: <i>404 273 7689</i> E-Mail: <i>cheyenne.whitire@testamericainc.com</i>		Lab PM: <i>Whitire, Cheyenne R</i> Camer Tracking No(s):		COC No: <i>400-57303-24190.6</i> Page: Job #:	
Company: <i>Southern Company</i> Address: <i>241 Ralph McGill Blvd SE B10185</i> City: <i>Atlanta</i> State, Zip: <i>GA, 30308</i> Phone: <i>404-506-7239</i> Email: <i>JAbraham@southernco.com</i> Project Name: <i>40007041</i> CCR - Scherer Site: <i>Plant Scherer</i>		Analysis Requested Due Date Requested: TAT Requested (days): <i>Standard TAT</i> PO #: <i>GPC10624814</i> WO #:		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 Other:	
Sample Identification <i>SG-WA-5</i> Sample Date: <i>3/16/16</i> Sample Time: <i>1419</i> Sample Type (C=Comp, G=grab): <i>G</i> Matrix (W=water, S=solid, O=soil, I=Intestine, A=Air)		Field Filtered Sample (Yes or No): <input checked="" type="checkbox"/> <i>X</i> Perform MS/MSD (Yes or No): <input checked="" type="checkbox"/> <i>X</i> TDS - SM 2640C; Cl, F, SO4 - EPA 300 Metals Appendix III & IV - EPA 6020 & EPA 7470 Radium 226 & 228 - SW-046 9316 & 9320		Special Instructions/Note: Total Number of containers: <i>3</i>	
Possible Hazard Identification <input type="checkbox"/> Non-Hazard <input type="checkbox"/> Flammable <input type="checkbox"/> Skin Irritant <input type="checkbox"/> Poison B <input type="checkbox"/> Unknown <input type="checkbox"/> Radiological					
Deliverable Requested: I, II, III, IV, Other (specify)					
Empty Kit Relinquished by:					
Relinquished by: <i>[Signature]</i> Relinquished by: <i>[Signature]</i> Relinquished by:		Date/Time: <i>3/16/16 1530</i> Date/Time: Date/Time:		Method of Shipment: Date/Time: <i>75811</i> Date/Time: <i>817116</i> Date/Time:	
Relinquished by: <i>[Signature]</i> Relinquished by:		Date/Time: <i>1530</i> Date/Time:		Company: <i>AECON</i> Company: <i>UPS</i> Company: <i>UPS</i> Company:	
Custody Seal No.: <i>125</i> Δ Yes Δ No		Cooler Temperature (°C) and Other Remarks: <i>0.6c 1.5c</i>			



Login Sample Receipt Checklist

Client: Southern Company

Job Number: 400-125959-2

SDG Number: Ash Pond

Login Number: 125959

List Number: 1

Creator: Siddoway, Benjamin

List Source: TestAmerica Pensacola

Question	Answer	Comment
Radioactivity wasn't checked or is \leq background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	N/A	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	0.6°C, 1.5°C IR-5
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 <math><6\text{mm}</math> (1/4").	N/A	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	



Certification Summary

Client: Southern Company
Project/Site: CCR Plant Scherer

TestAmerica Job ID: 400-125959-2
SDG: Ash Pond

Laboratory: TestAmerica Pensacola

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

Authority	Program	EPA Region	Certification ID	Expiration Date
Alabama	State Program	4	40150	06-30-17
Arizona	State Program	9	AZ0710	01-11-17
Arkansas DEQ	State Program	6	88-0689	09-01-16 *
California	ELAP	9	2510	03-31-18
Florida	NELAP	4	E81010	06-30-17
Georgia	State Program	4	N/A	06-30-17
Illinois	NELAP	5	200041	10-09-16
Iowa	State Program	7	367	07-31-16 *
Kansas	NELAP	7	E-10253	10-31-16
Kentucky (UST)	State Program	4	53	06-30-17
Kentucky (WW)	State Program	4	98030	12-31-16
Louisiana	NELAP	6	30976	06-30-17
Maryland	State Program	3	233	09-30-17
Massachusetts	State Program	1	M-FL094	06-30-17
Michigan	State Program	5	9912	05-06-17
New Jersey	NELAP	2	FL006	06-30-17
North Carolina (WW/SW)	State Program	4	314	12-31-16
Oklahoma	State Program	6	9810	08-31-17
Pennsylvania	NELAP	3	68-00467	01-31-17
Rhode Island	State Program	1	LAO00307	12-30-16
South Carolina	State Program	4	96026	06-30-16 *
Tennessee	State Program	4	TN02907	06-30-17
Texas	NELAP	6	T104704286-15-9	09-30-16
USDA	Federal		P330-16-00172	05-24-19
Virginia	NELAP	3	460166	06-14-17
Washington	State Program	10	C915	05-15-17
West Virginia DEP	State Program	3	136	08-31-16 *

Laboratory: TestAmerica St. Louis

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

Authority	Program	EPA Region	Certification ID	Expiration Date
Alaska	State Program	10	MO00054	06-30-17
California	State Program	9	2886	03-31-18
Connecticut	State Program	1	PH-0241	03-31-17
Florida	NELAP	4	E87689	06-30-17
Illinois	NELAP	5	003757	11-30-16 *
Iowa	State Program	7	373	12-01-16 *
Kansas	NELAP	7	E-10236	10-31-16 *
Kentucky (DW)	State Program	4	90125	12-31-16
L-A-B	DoD ELAP		L2305	04-06-19
Louisiana	NELAP	6	04080	06-30-17
Louisiana (DW)	NELAP	6	LA160008	12-31-16
Maryland	State Program	3	310	09-30-17
Missouri	State Program	7	780	06-30-17
Nevada	State Program	9	MO000542016-1	07-31-17
New Jersey	NELAP	2	MO002	06-30-17
New York	NELAP	2	11616	03-31-17
North Dakota	State Program	8	R207	06-30-17
NRC	NRC		24-24817-01	12-31-22

* Certification renewal pending - certification considered valid.

Certification Summary

Client: Southern Company
Project/Site: CCR Plant Scherer

TestAmerica Job ID: 400-125959-2
SDG: Ash Pond

Laboratory: TestAmerica St. Louis (Continued)

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

Authority	Program	EPA Region	Certification ID	Expiration Date
Oklahoma	State Program	6	9997	08-31-17
Pennsylvania	NELAP	3	68-00540	02-28-17 *
South Carolina	State Program	4	85002001	06-30-16 *
Texas	NELAP	6	T104704193-15-9	07-31-17
USDA	Federal		P330-07-00122	01-09-17
Utah	NELAP	8	MO000542016-8	07-31-17
Virginia	NELAP	3	460230	06-14-17
Washington	State Program	10	C592	08-30-17
West Virginia DEP	State Program	3	381	08-31-16 *

* Certification renewal pending - certification considered valid.

TestAmerica Pensacola

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

TestAmerica Laboratories, Inc.

TestAmerica Pensacola

3355 McLemore Drive

Pensacola, FL 32514

Tel: (850)474-1001

TestAmerica Job ID: 400-126027-1

TestAmerica Sample Delivery Group: Plant Scherer

Client Project/Site: CCR Plant Scherer

For:

Southern Company

241 Ralph McGill Blvd SE

B10185

Atlanta, Georgia 30308

Attn: Joju Abraham



Authorized for release by:

9/11/2016 7:09:14 PM

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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.

1

2

3

4

5

6

7

8

9

10

11

12

13

14



Table of Contents

Cover Page	1
Table of Contents	2
Case Narrative	3
Detection Summary	4
Method Summary	10
Sample Summary	11
Client Sample Results	12
Definitions	35
Chronicle	36
QC Association	43
QC Sample Results	49
Chain of Custody	59
Receipt Checklists	66
Certification Summary	67

Case Narrative

Client: Southern Company
Project/Site: CCR Plant Scherer

TestAmerica Job ID: 400-126027-1
SDG: Plant Scherer

Job ID: 400-126027-1

Laboratory: TestAmerica Pensacola

Narrative

**Job Narrative
400-126027-1**

HPLC/IC

Method(s) 300.0: The following samples were diluted to bring the concentration of target analytes within the calibration range: SGWC-14 (400-126027-11), SGWC-13 (400-126027-15), SGWC-15 (400-126027-17), SGWC-17 (400-126027-18), SGWC-22 (400-126027-19), SGWC-23 (400-126027-22), DUP-6 (400-126027-23) and (400-126027-A-17 MS). Elevated reporting limits (RLs) are provided.

Metals

Method(s) 6020: The serial dilution performed for the following sample associated with batch 320555 was outside control limits for Barium: (400-126027-B-10-B SD). Post-digestion spike (PDS) recovery for this analyte met acceptance criteria (corrective action).



Detection Summary

Client: Southern Company
Project/Site: CCR Plant Scherer

TestAmerica Job ID: 400-126027-1
SDG: Plant Scherer

Client Sample ID: FB-4

Lab Sample ID: 400-126027-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Lead	0.00038	J	0.0013	0.00035	mg/L	5		6020	Total Recoverable

Client Sample ID: SGWA-25

Lab Sample ID: 400-126027-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chloride	2.4		1.0	0.89	mg/L	1		300.0	Total/NA
Arsenic	0.0012	J	0.0013	0.00046	mg/L	5		6020	Total Recoverable
Barium	0.021		0.0025	0.00049	mg/L	5		6020	Total Recoverable
Calcium	9.6		0.25	0.13	mg/L	5		6020	Total Recoverable
Cobalt	0.010		0.0025	0.00040	mg/L	5		6020	Total Recoverable
Total Dissolved Solids	86		5.0	3.4	mg/L	1		SM 2540C	Total/NA

Client Sample ID: SGWC-7

Lab Sample ID: 400-126027-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chloride	6.4		1.0	0.89	mg/L	1		300.0	Total/NA
Fluoride	0.22		0.20	0.082	mg/L	1		300.0	Total/NA
Sulfate	19		1.0	0.70	mg/L	1		300.0	Total/NA
Arsenic	0.00060	J	0.0013	0.00046	mg/L	5		6020	Total Recoverable
Barium	0.29		0.0025	0.00049	mg/L	5		6020	Total Recoverable
Boron	0.039	J	0.050	0.021	mg/L	5		6020	Total Recoverable
Calcium	23		0.25	0.13	mg/L	5		6020	Total Recoverable
Cobalt	0.012		0.0025	0.00040	mg/L	5		6020	Total Recoverable
Lead	0.00085	J	0.0013	0.00035	mg/L	5		6020	Total Recoverable
Lithium	0.0046	J	0.0050	0.0032	mg/L	5		6020	Total Recoverable
Molybdenum	0.0020	J	0.015	0.00085	mg/L	5		6020	Total Recoverable
Total Dissolved Solids	220		5.0	3.4	mg/L	1		SM 2540C	Total/NA

Client Sample ID: SGWC-11

Lab Sample ID: 400-126027-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chloride	8.6		1.0	0.89	mg/L	1		300.0	Total/NA
Sulfate	2.4		1.0	0.70	mg/L	1		300.0	Total/NA
Arsenic	0.0011	J	0.0013	0.00046	mg/L	5		6020	Total Recoverable
Barium	0.033		0.0025	0.00049	mg/L	5		6020	Total Recoverable
Boron	0.26		0.050	0.021	mg/L	5		6020	Total Recoverable
Calcium	1.9		0.25	0.13	mg/L	5		6020	Total Recoverable

This Detection Summary does not include radiochemical test results.

TestAmerica Pensacola

Detection Summary

Client: Southern Company
Project/Site: CCR Plant Scherer

TestAmerica Job ID: 400-126027-1
SDG: Plant Scherer

Client Sample ID: SGWC-11 (Continued)

Lab Sample ID: 400-126027-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Cobalt	0.030		0.0025	0.00040	mg/L	5		6020	Total
Total Dissolved Solids	42		5.0	3.4	mg/L	1		SM 2540C	Total/NA

Client Sample ID: SGWC-6

Lab Sample ID: 400-126027-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chloride	2.4		1.0	0.89	mg/L	1		300.0	Total/NA
Fluoride	0.14	J	0.20	0.082	mg/L	1		300.0	Total/NA
Barium	0.094		0.0025	0.00049	mg/L	5		6020	Total
Calcium	8.0		0.25	0.13	mg/L	5		6020	Recoverable
Cobalt	0.0018	J	0.0025	0.00040	mg/L	5		6020	Total
Total Dissolved Solids	86		5.0	3.4	mg/L	1		SM 2540C	Recoverable
									Total/NA

Client Sample ID: SGWC-10

Lab Sample ID: 400-126027-6

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chloride	9.4		1.0	0.89	mg/L	1		300.0	Total/NA
Sulfate	11		1.0	0.70	mg/L	1		300.0	Total/NA
Barium	0.029		0.0025	0.00049	mg/L	5		6020	Total
Boron	0.028	J	0.050	0.021	mg/L	5		6020	Recoverable
Calcium	4.1		0.25	0.13	mg/L	5		6020	Total
Cobalt	0.022		0.0025	0.00040	mg/L	5		6020	Recoverable
Total Dissolved Solids	70		5.0	3.4	mg/L	1		SM 2540C	Total
									Recoverable
									Total/NA

Client Sample ID: EQB-4

Lab Sample ID: 400-126027-7

No Detections.

Client Sample ID: SGWA-4

Lab Sample ID: 400-126027-8

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chloride	1.4		1.0	0.89	mg/L	1		300.0	Total/NA
Sulfate	1.8		1.0	0.70	mg/L	1		300.0	Total/NA
Barium	0.046		0.0025	0.00049	mg/L	5		6020	Total
Calcium	15		0.25	0.13	mg/L	5		6020	Recoverable
Chromium	0.0011	J	0.0025	0.0011	mg/L	5		6020	Total
Cobalt	0.00041	J	0.0025	0.00040	mg/L	5		6020	Recoverable
Molybdenum	0.0018	J	0.015	0.00085	mg/L	5		6020	Total
Total Dissolved Solids	100		5.0	3.4	mg/L	1		SM 2540C	Recoverable
									Total/NA

This Detection Summary does not include radiochemical test results.

TestAmerica Pensacola

Detection Summary

Client: Southern Company
Project/Site: CCR Plant Scherer

TestAmerica Job ID: 400-126027-1
SDG: Plant Scherer

Client Sample ID: SGWC-8

Lab Sample ID: 400-126027-9

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chloride	14		1.0	0.89	mg/L	1		300.0	Total/NA
Fluoride	0.54		0.20	0.082	mg/L	1		300.0	Total/NA
Sulfate	63		5.0	3.5	mg/L	5		300.0	Total/NA
Barium	0.16		0.0025	0.00049	mg/L	5		6020	Total Recoverable
Boron	0.067		0.050	0.021	mg/L	5		6020	Total Recoverable
Calcium	45		0.25	0.13	mg/L	5		6020	Total Recoverable
Cobalt	0.00049	J	0.0025	0.00040	mg/L	5		6020	Total Recoverable
Total Dissolved Solids	410		5.0	3.4	mg/L	1		SM 2540C	Total/NA

Client Sample ID: SGWC-12

Lab Sample ID: 400-126027-10

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chloride	9.3		1.0	0.89	mg/L	1		300.0	Total/NA
Fluoride	0.12	J	0.20	0.082	mg/L	1		300.0	Total/NA
Sulfate	24		1.0	0.70	mg/L	1		300.0	Total/NA
Arsenic	0.00091	J	0.0013	0.00046	mg/L	5		6020	Total Recoverable
Barium	0.030		0.0025	0.00049	mg/L	5		6020	Total Recoverable
Calcium	20		0.25	0.13	mg/L	5		6020	Total Recoverable
Cobalt	0.0035		0.0025	0.00040	mg/L	5		6020	Total Recoverable
Molybdenum	0.0011	J	0.015	0.00085	mg/L	5		6020	Total Recoverable
Selenium	0.00031	J	0.0013	0.00024	mg/L	5		6020	Total Recoverable
Total Dissolved Solids	200		5.0	3.4	mg/L	1		SM 2540C	Total/NA

Client Sample ID: SGWC-14

Lab Sample ID: 400-126027-11

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chloride	11		1.0	0.89	mg/L	1		300.0	Total/NA
Sulfate	180		5.0	3.5	mg/L	5		300.0	Total/NA
Barium	0.060		0.0025	0.00049	mg/L	5		6020	Total Recoverable
Boron	1.3		0.050	0.021	mg/L	5		6020	Total Recoverable
Calcium	37		0.25	0.13	mg/L	5		6020	Total Recoverable
Cobalt	0.011		0.0025	0.00040	mg/L	5		6020	Total Recoverable
Total Dissolved Solids	320		5.0	3.4	mg/L	1		SM 2540C	Total/NA

Client Sample ID: SGWC-16

Lab Sample ID: 400-126027-12

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chloride	8.5		1.0	0.89	mg/L	1		300.0	Total/NA
Sulfate	14		1.0	0.70	mg/L	1		300.0	Total/NA

This Detection Summary does not include radiochemical test results.

TestAmerica Pensacola

Detection Summary

Client: Southern Company
Project/Site: CCR Plant Scherer

TestAmerica Job ID: 400-126027-1
SDG: Plant Scherer

Client Sample ID: SGWC-16 (Continued)

Lab Sample ID: 400-126027-12

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Barium	0.017		0.0025	0.00049	mg/L	5		6020	Total Recoverable
Boron	0.54		0.050	0.021	mg/L	5		6020	Total Recoverable
Calcium	0.70		0.25	0.13	mg/L	5		6020	Total Recoverable
Chromium	0.0085		0.0025	0.0011	mg/L	5		6020	Total Recoverable
Cobalt	0.0029		0.0025	0.00040	mg/L	5		6020	Total Recoverable
Selenium	0.00053	J	0.0013	0.00024	mg/L	5		6020	Total Recoverable
Total Dissolved Solids	48		5.0	3.4	mg/L	1		SM 2540C	Total/NA

Client Sample ID: EQB-5

Lab Sample ID: 400-126027-13

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Barium	0.0020	J	0.0025	0.00049	mg/L	5		6020	Total Recoverable

Client Sample ID: DUP-5

Lab Sample ID: 400-126027-14

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chloride	9.3		1.0	0.89	mg/L	1		300.0	Total/NA
Fluoride	0.12	J	0.20	0.082	mg/L	1		300.0	Total/NA
Sulfate	25		1.0	0.70	mg/L	1		300.0	Total/NA
Barium	0.030		0.0025	0.00049	mg/L	5		6020	Total Recoverable
Calcium	21		0.25	0.13	mg/L	5		6020	Total Recoverable
Cobalt	0.0036		0.0025	0.00040	mg/L	5		6020	Total Recoverable
Total Dissolved Solids	150		5.0	3.4	mg/L	1		SM 2540C	Total/NA

Client Sample ID: SGWC-13

Lab Sample ID: 400-126027-15

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chloride	5.8		1.0	0.89	mg/L	1		300.0	Total/NA
Sulfate	78		5.0	3.5	mg/L	5		300.0	Total/NA
Barium	0.022		0.0025	0.00049	mg/L	5		6020	Total Recoverable
Boron	0.51		0.050	0.021	mg/L	5		6020	Total Recoverable
Calcium	15		0.25	0.13	mg/L	5		6020	Total Recoverable
Cobalt	0.0099		0.0025	0.00040	mg/L	5		6020	Total Recoverable
Total Dissolved Solids	180		5.0	3.4	mg/L	1		SM 2540C	Total/NA

Client Sample ID: FB-5

Lab Sample ID: 400-126027-16

No Detections.

This Detection Summary does not include radiochemical test results.

TestAmerica Pensacola

Detection Summary

Client: Southern Company
Project/Site: CCR Plant Scherer

TestAmerica Job ID: 400-126027-1
SDG: Plant Scherer

Client Sample ID: SGWC-15

Lab Sample ID: 400-126027-17

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chloride	10		1.0	0.89	mg/L	1		300.0	Total/NA
Fluoride	0.14	J	0.20	0.082	mg/L	1		300.0	Total/NA
Sulfate	190		5.0	3.5	mg/L	5		300.0	Total/NA
Arsenic	0.0015		0.0013	0.00046	mg/L	5		6020	Total Recoverable
Barium	0.043		0.0025	0.00049	mg/L	5		6020	Total Recoverable
Beryllium	0.00037	J	0.0025	0.00034	mg/L	5		6020	Total Recoverable
Boron	1.5		0.050	0.021	mg/L	5		6020	Total Recoverable
Calcium	15		0.25	0.13	mg/L	5		6020	Total Recoverable
Chromium	0.034		0.0025	0.0011	mg/L	5		6020	Total Recoverable
Cobalt	0.26		0.0025	0.00040	mg/L	5		6020	Total Recoverable
Selenium	0.0014		0.0013	0.00024	mg/L	5		6020	Total Recoverable
Mercury	0.00011	J	0.00020	0.000070	mg/L	1		7470A	Total/NA
Total Dissolved Solids	310		5.0	3.4	mg/L	1		SM 2540C	Total/NA

Client Sample ID: SGWC-17

Lab Sample ID: 400-126027-18

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chloride	8.8		1.0	0.89	mg/L	1		300.0	Total/NA
Sulfate	130		5.0	3.5	mg/L	5		300.0	Total/NA
Barium	0.016		0.0025	0.00049	mg/L	5		6020	Total Recoverable
Boron	0.24		0.050	0.021	mg/L	5		6020	Total Recoverable
Calcium	35		0.25	0.13	mg/L	5		6020	Total Recoverable
Chromium	0.0027		0.0025	0.0011	mg/L	5		6020	Total Recoverable
Cobalt	0.00078	J	0.0025	0.00040	mg/L	5		6020	Total Recoverable
Total Dissolved Solids	310		5.0	3.4	mg/L	1		SM 2540C	Total/NA

Client Sample ID: SGWC-22

Lab Sample ID: 400-126027-19

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chloride	11		1.0	0.89	mg/L	1		300.0	Total/NA
Sulfate	81		5.0	3.5	mg/L	5		300.0	Total/NA
Barium	0.096		0.0025	0.00049	mg/L	5		6020	Total Recoverable
Boron	0.37		0.050	0.021	mg/L	5		6020	Total Recoverable
Calcium	22		0.25	0.13	mg/L	5		6020	Total Recoverable
Cobalt	0.0045		0.0025	0.00040	mg/L	5		6020	Total Recoverable
Total Dissolved Solids	230		5.0	3.4	mg/L	1		SM 2540C	Total/NA

This Detection Summary does not include radiochemical test results.

TestAmerica Pensacola

Detection Summary

Client: Southern Company
Project/Site: CCR Plant Scherer

TestAmerica Job ID: 400-126027-1
SDG: Plant Scherer

Client Sample ID: FB-6

Lab Sample ID: 400-126027-20

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Barium	0.0019	J	0.0025	0.00049	mg/L	5		6020	Total Recoverable
Total Dissolved Solids	12		5.0	3.4	mg/L	1		SM 2540C	Total/NA

Client Sample ID: EQB-6

Lab Sample ID: 400-126027-21

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Barium	0.0022	J	0.0025	0.00049	mg/L	5		6020	Total Recoverable
Total Dissolved Solids	16		5.0	3.4	mg/L	1		SM 2540C	Total/NA

Client Sample ID: SGWC-23

Lab Sample ID: 400-126027-22

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chloride	9.6		1.0	0.89	mg/L	1		300.0	Total/NA
Sulfate	120		5.0	3.5	mg/L	5		300.0	Total/NA
Barium	0.093		0.0025	0.00049	mg/L	5		6020	Total Recoverable
Boron	0.58		0.050	0.021	mg/L	5		6020	Total Recoverable
Calcium	29		0.25	0.13	mg/L	5		6020	Total Recoverable
Mercury	0.000071	J	0.00020	0.000070	mg/L	1		7470A	Total/NA
Total Dissolved Solids	290		5.0	3.4	mg/L	1		SM 2540C	Total/NA

Client Sample ID: DUP-6

Lab Sample ID: 400-126027-23

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chloride	9.6		1.0	0.89	mg/L	1		300.0	Total/NA
Sulfate	120		5.0	3.5	mg/L	5		300.0	Total/NA
Barium	0.094		0.0025	0.00049	mg/L	5		6020	Total Recoverable
Boron	0.58		0.050	0.021	mg/L	5		6020	Total Recoverable
Calcium	29		0.25	0.13	mg/L	5		6020	Total Recoverable
Lithium	0.0033	J	0.0050	0.0032	mg/L	5		6020	Total Recoverable
Total Dissolved Solids	300		5.0	3.4	mg/L	1		SM 2540C	Total/NA

This Detection Summary does not include radiochemical test results.

TestAmerica Pensacola

Method Summary

Client: Southern Company
Project/Site: CCR Plant Scherer

TestAmerica Job ID: 400-126027-1
SDG: Plant Scherer

Method	Method Description	Protocol	Laboratory
300.0	Anions, Ion Chromatography	MCAWW	TAL PEN
6020	Metals (ICP/MS)	SW846	TAL PEN
7470A	Mercury (CVAA)	SW846	TAL PEN
SM 2540C	Solids, Total Dissolved (TDS)	SM	TAL PEN

Protocol References:

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:

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

Sample Summary

Client: Southern Company
Project/Site: CCR Plant Scherer

TestAmerica Job ID: 400-126027-1
SDG: Plant Scherer

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
400-126027-1	FB-4	Water	08/17/16 09:08	08/18/16 10:07
400-126027-2	SGWA-25	Water	08/17/16 09:46	08/18/16 10:07
400-126027-3	SGWC-7	Water	08/17/16 11:25	08/18/16 10:07
400-126027-4	SGWC-11	Water	08/17/16 14:45	08/18/16 10:07
400-126027-5	SGWC-6	Water	08/17/16 11:40	08/18/16 10:07
400-126027-6	SGWC-10	Water	08/17/16 14:15	08/18/16 10:07
400-126027-7	EQB-4	Water	08/17/16 15:45	08/18/16 10:07
400-126027-8	SGWA-4	Water	08/17/16 10:49	08/18/16 10:07
400-126027-9	SGWC-8	Water	08/17/16 14:14	08/18/16 10:07
400-126027-10	SGWC-12	Water	08/18/16 09:01	08/19/16 10:15
400-126027-11	SGWC-14	Water	08/18/16 11:01	08/19/16 10:15
400-126027-12	SGWC-16	Water	08/18/16 13:42	08/19/16 10:15
400-126027-13	EQB-5	Water	08/18/16 14:47	08/19/16 10:15
400-126027-14	DUP-5	Water	08/18/16 00:00	08/19/16 10:15
400-126027-15	SGWC-13	Water	08/18/16 08:45	08/19/16 10:15
400-126027-16	FB-5	Water	08/18/16 09:15	08/19/16 10:15
400-126027-17	SGWC-15	Water	08/18/16 11:20	08/19/16 10:15
400-126027-18	SGWC-17	Water	08/18/16 13:47	08/19/16 10:15
400-126027-19	SGWC-22	Water	08/19/16 08:33	08/20/16 08:56
400-126027-20	FB-6	Water	08/19/16 08:53	08/20/16 08:56
400-126027-21	EQB-6	Water	08/19/16 09:45	08/20/16 08:56
400-126027-22	SGWC-23	Water	08/19/16 07:58	08/20/16 08:56
400-126027-23	DUP-6	Water	08/19/16 00:00	08/20/16 08:56

Client Sample Results

Client: Southern Company
Project/Site: CCR Plant Scherer

TestAmerica Job ID: 400-126027-1
SDG: Plant Scherer

Client Sample ID: FB-4
Date Collected: 08/17/16 09:08
Date Received: 08/18/16 10:07

Lab Sample ID: 400-126027-1
Matrix: Water

Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<0.89		1.0	0.89	mg/L			08/25/16 01:02	1
Fluoride	<0.082		0.20	0.082	mg/L			08/25/16 01:02	1
Sulfate	<0.70		1.0	0.70	mg/L			08/25/16 01:02	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0010		0.0025	0.0010	mg/L		08/20/16 13:29	08/22/16 17:07	5
Arsenic	<0.00046		0.0013	0.00046	mg/L		08/20/16 13:29	08/22/16 17:07	5
Barium	<0.00049		0.0025	0.00049	mg/L		08/20/16 13:29	08/22/16 17:07	5
Beryllium	<0.00034		0.0025	0.00034	mg/L		08/20/16 13:29	08/22/16 17:07	5
Boron	<0.021		0.050	0.021	mg/L		08/20/16 13:29	08/22/16 17:07	5
Cadmium	<0.00034		0.0025	0.00034	mg/L		08/20/16 13:29	08/22/16 17:07	5
Calcium	<0.13		0.25	0.13	mg/L		08/20/16 13:29	08/22/16 17:07	5
Chromium	<0.0011		0.0025	0.0011	mg/L		08/20/16 13:29	08/22/16 17:07	5
Cobalt	<0.00040		0.0025	0.00040	mg/L		08/20/16 13:29	08/22/16 17:07	5
Lead	0.00038	J	0.0013	0.00035	mg/L		08/20/16 13:29	08/22/16 17:07	5
Lithium	<0.0032		0.0050	0.0032	mg/L		08/20/16 13:29	08/22/16 17:07	5
Molybdenum	<0.00085		0.015	0.00085	mg/L		08/20/16 13:29	08/22/16 17:07	5
Selenium	<0.00024		0.0013	0.00024	mg/L		08/20/16 13:29	08/22/16 17:07	5
Thallium	<0.000085		0.00050	0.000085	mg/L		08/20/16 13:29	08/22/16 17:07	5

Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.000070		0.00020	0.000070	mg/L		08/22/16 10:10	08/25/16 12:41	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	<3.4		5.0	3.4	mg/L			08/23/16 13:43	1

Client Sample Results

Client: Southern Company
Project/Site: CCR Plant Scherer

TestAmerica Job ID: 400-126027-1
SDG: Plant Scherer

Client Sample ID: SGWA-25

Date Collected: 08/17/16 09:46

Date Received: 08/18/16 10:07

Lab Sample ID: 400-126027-2

Matrix: Water

Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	2.4		1.0	0.89	mg/L			08/25/16 02:10	1
Fluoride	<0.082		0.20	0.082	mg/L			08/25/16 02:10	1
Sulfate	<0.70		1.0	0.70	mg/L			08/25/16 02:10	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0010		0.0025	0.0010	mg/L		08/20/16 13:29	08/22/16 17:25	5
Arsenic	0.0012	J	0.0013	0.00046	mg/L		08/20/16 13:29	08/22/16 17:25	5
Barium	0.021		0.0025	0.00049	mg/L		08/20/16 13:29	08/22/16 17:25	5
Beryllium	<0.00034		0.0025	0.00034	mg/L		08/20/16 13:29	08/22/16 17:25	5
Boron	<0.021		0.050	0.021	mg/L		08/20/16 13:29	08/22/16 17:25	5
Cadmium	<0.00034		0.0025	0.00034	mg/L		08/20/16 13:29	08/22/16 17:25	5
Calcium	9.6		0.25	0.13	mg/L		08/20/16 13:29	08/22/16 17:25	5
Chromium	<0.0011		0.0025	0.0011	mg/L		08/20/16 13:29	08/22/16 17:25	5
Cobalt	0.010		0.0025	0.00040	mg/L		08/20/16 13:29	08/22/16 17:25	5
Lead	<0.00035		0.0013	0.00035	mg/L		08/20/16 13:29	08/22/16 17:25	5
Lithium	<0.0032		0.0050	0.0032	mg/L		08/20/16 13:29	08/22/16 17:25	5
Molybdenum	<0.00085		0.015	0.00085	mg/L		08/20/16 13:29	08/22/16 17:25	5
Selenium	<0.00024		0.0013	0.00024	mg/L		08/20/16 13:29	08/22/16 17:25	5
Thallium	<0.000085		0.00050	0.000085	mg/L		08/20/16 13:29	08/22/16 17:25	5

Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.000070		0.00020	0.000070	mg/L		08/22/16 10:10	08/25/16 12:46	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	86		5.0	3.4	mg/L			08/23/16 13:43	1

Client Sample Results

Client: Southern Company
Project/Site: CCR Plant Scherer

TestAmerica Job ID: 400-126027-1
SDG: Plant Scherer

Client Sample ID: SGWC-7

Lab Sample ID: 400-126027-3

Date Collected: 08/17/16 11:25

Matrix: Water

Date Received: 08/18/16 10:07

Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	6.4		1.0	0.89	mg/L			08/25/16 02:33	1
Fluoride	0.22		0.20	0.082	mg/L			08/25/16 02:33	1
Sulfate	19		1.0	0.70	mg/L			08/25/16 02:33	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0010		0.0025	0.0010	mg/L		08/20/16 13:29	08/22/16 17:30	5
Arsenic	0.00060	J	0.0013	0.00046	mg/L		08/20/16 13:29	08/22/16 17:30	5
Barium	0.29		0.0025	0.00049	mg/L		08/20/16 13:29	08/22/16 17:30	5
Beryllium	<0.00034		0.0025	0.00034	mg/L		08/20/16 13:29	08/22/16 17:30	5
Boron	0.039	J	0.050	0.021	mg/L		08/20/16 13:29	08/22/16 17:30	5
Cadmium	<0.00034		0.0025	0.00034	mg/L		08/20/16 13:29	08/22/16 17:30	5
Calcium	23		0.25	0.13	mg/L		08/20/16 13:29	08/22/16 17:30	5
Chromium	<0.0011		0.0025	0.0011	mg/L		08/20/16 13:29	08/22/16 17:30	5
Cobalt	0.012		0.0025	0.00040	mg/L		08/20/16 13:29	08/22/16 17:30	5
Lead	0.00085	J	0.0013	0.00035	mg/L		08/20/16 13:29	08/22/16 17:30	5
Lithium	0.0046	J	0.0050	0.0032	mg/L		08/20/16 13:29	08/22/16 17:30	5
Molybdenum	0.0020	J	0.015	0.00085	mg/L		08/20/16 13:29	08/22/16 17:30	5
Selenium	<0.00024		0.0013	0.00024	mg/L		08/20/16 13:29	08/22/16 17:30	5
Thallium	<0.000085		0.00050	0.000085	mg/L		08/20/16 13:29	08/22/16 17:30	5

Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.000070		0.00020	0.000070	mg/L		08/22/16 10:10	08/25/16 12:48	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	220		5.0	3.4	mg/L			08/23/16 14:29	1

Client Sample Results

Client: Southern Company
Project/Site: CCR Plant Scherer

TestAmerica Job ID: 400-126027-1
SDG: Plant Scherer

Client Sample ID: SGWC-11

Lab Sample ID: 400-126027-4

Date Collected: 08/17/16 14:45

Matrix: Water

Date Received: 08/18/16 10:07

Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	8.6		1.0	0.89	mg/L			08/25/16 02:56	1
Fluoride	<0.082		0.20	0.082	mg/L			08/25/16 02:56	1
Sulfate	2.4		1.0	0.70	mg/L			08/25/16 02:56	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0010		0.0025	0.0010	mg/L		08/20/16 13:29	08/22/16 17:34	5
Arsenic	0.0011	J	0.0013	0.00046	mg/L		08/20/16 13:29	08/22/16 17:34	5
Barium	0.033		0.0025	0.00049	mg/L		08/20/16 13:29	08/22/16 17:34	5
Beryllium	<0.00034		0.0025	0.00034	mg/L		08/20/16 13:29	08/22/16 17:34	5
Boron	0.26		0.050	0.021	mg/L		08/20/16 13:29	08/22/16 17:34	5
Cadmium	<0.00034		0.0025	0.00034	mg/L		08/20/16 13:29	08/22/16 17:34	5
Calcium	1.9		0.25	0.13	mg/L		08/20/16 13:29	08/22/16 17:34	5
Chromium	<0.0011		0.0025	0.0011	mg/L		08/20/16 13:29	08/22/16 17:34	5
Cobalt	0.030		0.0025	0.00040	mg/L		08/20/16 13:29	08/22/16 17:34	5
Lead	<0.00035		0.0013	0.00035	mg/L		08/20/16 13:29	08/22/16 17:34	5
Lithium	<0.0032		0.0050	0.0032	mg/L		08/20/16 13:29	08/22/16 17:34	5
Molybdenum	<0.00085		0.015	0.00085	mg/L		08/20/16 13:29	08/22/16 17:34	5
Selenium	<0.00024		0.0013	0.00024	mg/L		08/20/16 13:29	08/22/16 17:34	5
Thallium	<0.000085		0.00050	0.000085	mg/L		08/20/16 13:29	08/22/16 17:34	5

Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.000070		0.00020	0.000070	mg/L		08/22/16 10:10	08/25/16 12:49	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	42		5.0	3.4	mg/L			08/23/16 14:29	1

Client Sample Results

Client: Southern Company
Project/Site: CCR Plant Scherer

TestAmerica Job ID: 400-126027-1
SDG: Plant Scherer

Client Sample ID: SGWC-6

Lab Sample ID: 400-126027-5

Date Collected: 08/17/16 11:40

Matrix: Water

Date Received: 08/18/16 10:07

Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	2.4		1.0	0.89	mg/L			08/25/16 03:19	1
Fluoride	0.14	J	0.20	0.082	mg/L			08/25/16 03:19	1
Sulfate	<0.70		1.0	0.70	mg/L			08/25/16 03:19	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0010		0.0025	0.0010	mg/L		08/20/16 13:29	08/22/16 17:39	5
Arsenic	<0.00046		0.0013	0.00046	mg/L		08/20/16 13:29	08/22/16 17:39	5
Barium	0.094		0.0025	0.00049	mg/L		08/20/16 13:29	08/22/16 17:39	5
Beryllium	<0.00034		0.0025	0.00034	mg/L		08/20/16 13:29	08/22/16 17:39	5
Boron	<0.021		0.050	0.021	mg/L		08/20/16 13:29	08/22/16 17:39	5
Cadmium	<0.00034		0.0025	0.00034	mg/L		08/20/16 13:29	08/22/16 17:39	5
Calcium	8.0		0.25	0.13	mg/L		08/20/16 13:29	08/22/16 17:39	5
Chromium	<0.0011		0.0025	0.0011	mg/L		08/20/16 13:29	08/22/16 17:39	5
Cobalt	0.0018	J	0.0025	0.00040	mg/L		08/20/16 13:29	08/22/16 17:39	5
Lead	<0.00035		0.0013	0.00035	mg/L		08/20/16 13:29	08/22/16 17:39	5
Lithium	<0.0032		0.0050	0.0032	mg/L		08/20/16 13:29	08/22/16 17:39	5
Molybdenum	<0.00085		0.015	0.00085	mg/L		08/20/16 13:29	08/22/16 17:39	5
Selenium	<0.00024		0.0013	0.00024	mg/L		08/20/16 13:29	08/22/16 17:39	5
Thallium	<0.000085		0.00050	0.000085	mg/L		08/20/16 13:29	08/22/16 17:39	5

Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.000070		0.00020	0.000070	mg/L		08/22/16 10:10	08/25/16 13:01	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	86		5.0	3.4	mg/L			08/23/16 14:29	1

Client Sample Results

Client: Southern Company
Project/Site: CCR Plant Scherer

TestAmerica Job ID: 400-126027-1
SDG: Plant Scherer

Client Sample ID: SGWC-10

Lab Sample ID: 400-126027-6

Date Collected: 08/17/16 14:15

Matrix: Water

Date Received: 08/18/16 10:07

Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	9.4		1.0	0.89	mg/L			08/25/16 04:27	1
Fluoride	<0.082		0.20	0.082	mg/L			08/25/16 04:27	1
Sulfate	11		1.0	0.70	mg/L			08/25/16 04:27	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0010		0.0025	0.0010	mg/L		08/20/16 13:29	08/22/16 17:43	5
Arsenic	<0.00046		0.0013	0.00046	mg/L		08/20/16 13:29	08/22/16 17:43	5
Barium	0.029		0.0025	0.00049	mg/L		08/20/16 13:29	08/22/16 17:43	5
Beryllium	<0.00034		0.0025	0.00034	mg/L		08/20/16 13:29	08/22/16 17:43	5
Boron	0.028	J	0.050	0.021	mg/L		08/20/16 13:29	08/22/16 17:43	5
Cadmium	<0.00034		0.0025	0.00034	mg/L		08/20/16 13:29	08/22/16 17:43	5
Calcium	4.1		0.25	0.13	mg/L		08/20/16 13:29	08/22/16 17:43	5
Chromium	<0.0011		0.0025	0.0011	mg/L		08/20/16 13:29	08/22/16 17:43	5
Cobalt	0.022		0.0025	0.00040	mg/L		08/20/16 13:29	08/22/16 17:43	5
Lead	<0.00035		0.0013	0.00035	mg/L		08/20/16 13:29	08/22/16 17:43	5
Lithium	<0.0032		0.0050	0.0032	mg/L		08/20/16 13:29	08/22/16 17:43	5
Molybdenum	<0.00085		0.015	0.00085	mg/L		08/20/16 13:29	08/22/16 17:43	5
Selenium	<0.00024		0.0013	0.00024	mg/L		08/20/16 13:29	08/22/16 17:43	5
Thallium	<0.000085		0.00050	0.000085	mg/L		08/20/16 13:29	08/22/16 17:43	5

Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.000070		0.00020	0.000070	mg/L		08/22/16 10:10	08/25/16 13:02	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	70		5.0	3.4	mg/L			08/23/16 14:29	1

Client Sample Results

Client: Southern Company
Project/Site: CCR Plant Scherer

TestAmerica Job ID: 400-126027-1
SDG: Plant Scherer

Client Sample ID: EQB-4
Date Collected: 08/17/16 15:45
Date Received: 08/18/16 10:07

Lab Sample ID: 400-126027-7
Matrix: Water

Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<0.89		1.0	0.89	mg/L			08/25/16 04:50	1
Fluoride	<0.082		0.20	0.082	mg/L			08/25/16 04:50	1
Sulfate	<0.70		1.0	0.70	mg/L			08/25/16 04:50	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0010		0.0025	0.0010	mg/L		08/20/16 13:29	08/22/16 17:48	5
Arsenic	<0.00046		0.0013	0.00046	mg/L		08/20/16 13:29	08/22/16 17:48	5
Barium	<0.00049		0.0025	0.00049	mg/L		08/20/16 13:29	08/22/16 17:48	5
Beryllium	<0.00034		0.0025	0.00034	mg/L		08/20/16 13:29	08/22/16 17:48	5
Boron	<0.021		0.050	0.021	mg/L		08/20/16 13:29	08/22/16 17:48	5
Cadmium	<0.00034		0.0025	0.00034	mg/L		08/20/16 13:29	08/22/16 17:48	5
Calcium	<0.13		0.25	0.13	mg/L		08/20/16 13:29	08/22/16 17:48	5
Chromium	<0.0011		0.0025	0.0011	mg/L		08/20/16 13:29	08/22/16 17:48	5
Cobalt	<0.00040		0.0025	0.00040	mg/L		08/20/16 13:29	08/22/16 17:48	5
Lead	<0.00035		0.0013	0.00035	mg/L		08/20/16 13:29	08/22/16 17:48	5
Lithium	<0.0032		0.0050	0.0032	mg/L		08/20/16 13:29	08/22/16 17:48	5
Molybdenum	<0.00085		0.015	0.00085	mg/L		08/20/16 13:29	08/22/16 17:48	5
Selenium	<0.00024		0.0013	0.00024	mg/L		08/20/16 13:29	08/22/16 17:48	5
Thallium	<0.000085		0.00050	0.000085	mg/L		08/20/16 13:29	08/22/16 17:48	5

Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.000070		0.00020	0.000070	mg/L		08/22/16 10:10	08/25/16 13:04	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	<3.4		5.0	3.4	mg/L			08/23/16 14:29	1

Client Sample Results

Client: Southern Company
Project/Site: CCR Plant Scherer

TestAmerica Job ID: 400-126027-1
SDG: Plant Scherer

Client Sample ID: SGWA-4

Lab Sample ID: 400-126027-8

Date Collected: 08/17/16 10:49

Matrix: Water

Date Received: 08/18/16 10:07

Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	1.4		1.0	0.89	mg/L			08/25/16 05:13	1
Fluoride	<0.082		0.20	0.082	mg/L			08/25/16 05:13	1
Sulfate	1.8		1.0	0.70	mg/L			08/25/16 05:13	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0010		0.0025	0.0010	mg/L		08/20/16 13:29	08/22/16 17:52	5
Arsenic	<0.00046		0.0013	0.00046	mg/L		08/20/16 13:29	08/22/16 17:52	5
Barium	0.046		0.0025	0.00049	mg/L		08/20/16 13:29	08/22/16 17:52	5
Beryllium	<0.00034		0.0025	0.00034	mg/L		08/20/16 13:29	08/22/16 17:52	5
Boron	<0.021		0.050	0.021	mg/L		08/20/16 13:29	08/22/16 17:52	5
Cadmium	<0.00034		0.0025	0.00034	mg/L		08/20/16 13:29	08/22/16 17:52	5
Calcium	15		0.25	0.13	mg/L		08/20/16 13:29	08/22/16 17:52	5
Chromium	0.0011	J	0.0025	0.0011	mg/L		08/20/16 13:29	08/22/16 17:52	5
Cobalt	0.00041	J	0.0025	0.00040	mg/L		08/20/16 13:29	08/22/16 17:52	5
Lead	<0.00035		0.0013	0.00035	mg/L		08/20/16 13:29	08/22/16 17:52	5
Lithium	<0.0032		0.0050	0.0032	mg/L		08/20/16 13:29	08/22/16 17:52	5
Molybdenum	0.0018	J	0.015	0.00085	mg/L		08/20/16 13:29	08/22/16 17:52	5
Selenium	<0.00024		0.0013	0.00024	mg/L		08/20/16 13:29	08/22/16 17:52	5
Thallium	<0.000085		0.00050	0.000085	mg/L		08/20/16 13:29	08/22/16 17:52	5

Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.000070		0.00020	0.000070	mg/L		08/22/16 10:10	08/25/16 13:05	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	100		5.0	3.4	mg/L			08/23/16 14:29	1

Client Sample Results

Client: Southern Company
Project/Site: CCR Plant Scherer

TestAmerica Job ID: 400-126027-1
SDG: Plant Scherer

Client Sample ID: SGWC-8

Lab Sample ID: 400-126027-9

Date Collected: 08/17/16 14:14

Matrix: Water

Date Received: 08/18/16 10:07

Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	14		1.0	0.89	mg/L			08/25/16 05:36	1
Fluoride	0.54		0.20	0.082	mg/L			08/25/16 05:36	1
Sulfate	63		5.0	3.5	mg/L			08/26/16 05:42	5

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0010		0.0025	0.0010	mg/L		08/20/16 13:29	08/22/16 17:57	5
Arsenic	<0.00046		0.0013	0.00046	mg/L		08/20/16 13:29	08/22/16 17:57	5
Barium	0.16		0.0025	0.00049	mg/L		08/20/16 13:29	08/22/16 17:57	5
Beryllium	<0.00034		0.0025	0.00034	mg/L		08/20/16 13:29	08/22/16 17:57	5
Boron	0.067		0.050	0.021	mg/L		08/20/16 13:29	08/22/16 17:57	5
Cadmium	<0.00034		0.0025	0.00034	mg/L		08/20/16 13:29	08/22/16 17:57	5
Calcium	45		0.25	0.13	mg/L		08/20/16 13:29	08/22/16 17:57	5
Chromium	<0.0011		0.0025	0.0011	mg/L		08/20/16 13:29	08/22/16 17:57	5
Cobalt	0.00049	J	0.0025	0.00040	mg/L		08/20/16 13:29	08/22/16 17:57	5
Lead	<0.00035		0.0013	0.00035	mg/L		08/20/16 13:29	08/22/16 17:57	5
Lithium	<0.0032		0.0050	0.0032	mg/L		08/20/16 13:29	08/22/16 17:57	5
Molybdenum	<0.00085		0.015	0.00085	mg/L		08/20/16 13:29	08/22/16 17:57	5
Selenium	<0.00024		0.0013	0.00024	mg/L		08/20/16 13:29	08/22/16 17:57	5
Thallium	<0.000085		0.00050	0.000085	mg/L		08/20/16 13:29	08/22/16 17:57	5

Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.000070		0.00020	0.000070	mg/L		08/22/16 10:10	08/25/16 13:06	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	410		5.0	3.4	mg/L			08/23/16 14:29	1

Client Sample Results

Client: Southern Company
Project/Site: CCR Plant Scherer

TestAmerica Job ID: 400-126027-1
SDG: Plant Scherer

Client Sample ID: SGWC-12

Lab Sample ID: 400-126027-10

Date Collected: 08/18/16 09:01

Matrix: Water

Date Received: 08/19/16 10:15

Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	9.3		1.0	0.89	mg/L			08/31/16 16:36	1
Fluoride	0.12	J	0.20	0.082	mg/L			08/31/16 16:36	1
Sulfate	24		1.0	0.70	mg/L			08/31/16 16:36	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0010		0.0025	0.0010	mg/L		08/24/16 07:44	08/24/16 15:17	5
Arsenic	0.00091	J	0.0013	0.00046	mg/L		08/24/16 07:44	08/24/16 15:17	5
Barium	0.030		0.0025	0.00049	mg/L		08/24/16 07:44	08/24/16 15:17	5
Beryllium	<0.00034		0.0025	0.00034	mg/L		08/24/16 07:44	08/24/16 15:17	5
Boron	<0.021		0.050	0.021	mg/L		08/24/16 07:44	08/24/16 15:17	5
Cadmium	<0.00034		0.0025	0.00034	mg/L		08/24/16 07:44	08/24/16 15:17	5
Calcium	20		0.25	0.13	mg/L		08/24/16 07:44	08/24/16 15:17	5
Chromium	<0.0011		0.0025	0.0011	mg/L		08/24/16 07:44	08/24/16 15:17	5
Cobalt	0.0035		0.0025	0.00040	mg/L		08/24/16 07:44	08/24/16 15:17	5
Lead	<0.00035		0.0013	0.00035	mg/L		08/24/16 07:44	08/24/16 15:17	5
Lithium	<0.0032		0.0050	0.0032	mg/L		08/24/16 07:44	08/24/16 15:17	5
Molybdenum	0.0011	J	0.015	0.00085	mg/L		08/24/16 07:44	08/24/16 15:17	5
Selenium	0.00031	J	0.0013	0.00024	mg/L		08/24/16 07:44	08/24/16 15:17	5
Thallium	<0.000085		0.00050	0.000085	mg/L		08/24/16 07:44	08/24/16 15:17	5

Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.000070		0.00020	0.000070	mg/L		08/22/16 10:10	08/25/16 13:07	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	200		5.0	3.4	mg/L			08/24/16 17:30	1

Client Sample Results

Client: Southern Company
Project/Site: CCR Plant Scherer

TestAmerica Job ID: 400-126027-1
SDG: Plant Scherer

Client Sample ID: SGWC-14

Lab Sample ID: 400-126027-11

Date Collected: 08/18/16 11:01

Matrix: Water

Date Received: 08/19/16 10:15

Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	11		1.0	0.89	mg/L			08/31/16 17:45	1
Fluoride	<0.082		0.20	0.082	mg/L			08/31/16 17:45	1
Sulfate	180		5.0	3.5	mg/L			09/01/16 21:55	5

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0010		0.0025	0.0010	mg/L		08/24/16 07:44	08/24/16 16:21	5
Arsenic	<0.00046		0.0013	0.00046	mg/L		08/24/16 07:44	08/24/16 16:21	5
Barium	0.060		0.0025	0.00049	mg/L		08/24/16 07:44	08/24/16 16:21	5
Beryllium	<0.00034		0.0025	0.00034	mg/L		08/24/16 07:44	08/24/16 16:21	5
Boron	1.3		0.050	0.021	mg/L		08/24/16 07:44	08/24/16 16:21	5
Cadmium	<0.00034		0.0025	0.00034	mg/L		08/24/16 07:44	08/24/16 16:21	5
Calcium	37		0.25	0.13	mg/L		08/24/16 07:44	08/24/16 16:21	5
Chromium	<0.0011		0.0025	0.0011	mg/L		08/24/16 07:44	08/24/16 16:21	5
Cobalt	0.011		0.0025	0.00040	mg/L		08/24/16 07:44	08/24/16 16:21	5
Lead	<0.00035		0.0013	0.00035	mg/L		08/24/16 07:44	08/24/16 16:21	5
Lithium	<0.0032		0.0050	0.0032	mg/L		08/24/16 07:44	08/24/16 16:21	5
Molybdenum	<0.00085		0.015	0.00085	mg/L		08/24/16 07:44	08/24/16 16:21	5
Selenium	<0.00024		0.0013	0.00024	mg/L		08/24/16 07:44	08/24/16 16:21	5
Thallium	<0.000085		0.00050	0.000085	mg/L		08/24/16 07:44	08/24/16 16:21	5

Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.000070		0.00020	0.000070	mg/L		08/22/16 10:10	08/25/16 13:08	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	320		5.0	3.4	mg/L			08/24/16 17:30	1

Client Sample Results

Client: Southern Company
Project/Site: CCR Plant Scherer

TestAmerica Job ID: 400-126027-1
SDG: Plant Scherer

Client Sample ID: SGWC-16

Date Collected: 08/18/16 13:42

Date Received: 08/19/16 10:15

Lab Sample ID: 400-126027-12

Matrix: Water

Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	8.5		1.0	0.89	mg/L			08/31/16 18:08	1
Fluoride	<0.082		0.20	0.082	mg/L			08/31/16 18:08	1
Sulfate	14		1.0	0.70	mg/L			08/31/16 18:08	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0010		0.0025	0.0010	mg/L		08/24/16 07:44	08/24/16 16:25	5
Arsenic	<0.00046		0.0013	0.00046	mg/L		08/24/16 07:44	08/24/16 16:25	5
Barium	0.017		0.0025	0.00049	mg/L		08/24/16 07:44	08/24/16 16:25	5
Beryllium	<0.00034		0.0025	0.00034	mg/L		08/24/16 07:44	08/24/16 16:25	5
Boron	0.54		0.050	0.021	mg/L		08/24/16 07:44	08/24/16 16:25	5
Cadmium	<0.00034		0.0025	0.00034	mg/L		08/24/16 07:44	08/24/16 16:25	5
Calcium	0.70		0.25	0.13	mg/L		08/24/16 07:44	08/24/16 16:25	5
Chromium	0.0085		0.0025	0.0011	mg/L		08/24/16 07:44	08/24/16 16:25	5
Cobalt	0.0029		0.0025	0.00040	mg/L		08/24/16 07:44	08/24/16 16:25	5
Lead	<0.00035		0.0013	0.00035	mg/L		08/24/16 07:44	08/24/16 16:25	5
Lithium	<0.0032		0.0050	0.0032	mg/L		08/24/16 07:44	08/24/16 16:25	5
Molybdenum	<0.00085		0.015	0.00085	mg/L		08/24/16 07:44	08/24/16 16:25	5
Selenium	0.00053	J	0.0013	0.00024	mg/L		08/24/16 07:44	08/24/16 16:25	5
Thallium	<0.000085		0.00050	0.000085	mg/L		08/24/16 07:44	08/24/16 16:25	5

Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.000070		0.00020	0.000070	mg/L		08/22/16 10:10	08/25/16 13:10	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	48		5.0	3.4	mg/L			08/24/16 17:30	1

Client Sample Results

Client: Southern Company
Project/Site: CCR Plant Scherer

TestAmerica Job ID: 400-126027-1
SDG: Plant Scherer

Client Sample ID: EQB-5

Date Collected: 08/18/16 14:47

Date Received: 08/19/16 10:15

Lab Sample ID: 400-126027-13

Matrix: Water

Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<0.89		1.0	0.89	mg/L			08/31/16 18:31	1
Fluoride	<0.082		0.20	0.082	mg/L			08/31/16 18:31	1
Sulfate	<0.70		1.0	0.70	mg/L			08/31/16 18:31	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0010		0.0025	0.0010	mg/L		08/24/16 07:44	08/24/16 16:30	5
Arsenic	<0.00046		0.0013	0.00046	mg/L		08/24/16 07:44	08/24/16 16:30	5
Barium	0.0020	J	0.0025	0.00049	mg/L		08/24/16 07:44	08/24/16 16:30	5
Beryllium	<0.00034		0.0025	0.00034	mg/L		08/24/16 07:44	08/24/16 16:30	5
Boron	<0.021		0.050	0.021	mg/L		08/24/16 07:44	08/24/16 16:30	5
Cadmium	<0.00034		0.0025	0.00034	mg/L		08/24/16 07:44	08/24/16 16:30	5
Calcium	<0.13		0.25	0.13	mg/L		08/24/16 07:44	08/24/16 16:30	5
Chromium	<0.0011		0.0025	0.0011	mg/L		08/24/16 07:44	08/24/16 16:30	5
Cobalt	<0.00040		0.0025	0.00040	mg/L		08/24/16 07:44	08/24/16 16:30	5
Lead	<0.00035		0.0013	0.00035	mg/L		08/24/16 07:44	08/24/16 16:30	5
Lithium	<0.0032		0.0050	0.0032	mg/L		08/24/16 07:44	08/24/16 16:30	5
Molybdenum	<0.00085		0.015	0.00085	mg/L		08/24/16 07:44	08/24/16 16:30	5
Selenium	<0.00024		0.0013	0.00024	mg/L		08/24/16 07:44	08/24/16 16:30	5
Thallium	<0.000085		0.00050	0.000085	mg/L		08/24/16 07:44	08/24/16 16:30	5

Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.000070		0.00020	0.000070	mg/L		08/22/16 10:10	08/25/16 13:11	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	<3.4		5.0	3.4	mg/L			08/24/16 17:30	1

Client Sample Results

Client: Southern Company
Project/Site: CCR Plant Scherer

TestAmerica Job ID: 400-126027-1
SDG: Plant Scherer

Client Sample ID: DUP-5
Date Collected: 08/18/16 00:00
Date Received: 08/19/16 10:15

Lab Sample ID: 400-126027-14
Matrix: Water

Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	9.3		1.0	0.89	mg/L			08/31/16 18:53	1
Fluoride	0.12	J	0.20	0.082	mg/L			08/31/16 18:53	1
Sulfate	25		1.0	0.70	mg/L			08/31/16 18:53	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0010		0.0025	0.0010	mg/L		08/24/16 07:44	08/24/16 16:35	5
Arsenic	<0.00046		0.0013	0.00046	mg/L		08/24/16 07:44	08/24/16 16:35	5
Barium	0.030		0.0025	0.00049	mg/L		08/24/16 07:44	08/24/16 16:35	5
Beryllium	<0.00034		0.0025	0.00034	mg/L		08/24/16 07:44	08/24/16 16:35	5
Boron	<0.021		0.050	0.021	mg/L		08/24/16 07:44	08/24/16 16:35	5
Cadmium	<0.00034		0.0025	0.00034	mg/L		08/24/16 07:44	08/24/16 16:35	5
Calcium	21		0.25	0.13	mg/L		08/24/16 07:44	08/24/16 16:35	5
Chromium	<0.0011		0.0025	0.0011	mg/L		08/24/16 07:44	08/24/16 16:35	5
Cobalt	0.0036		0.0025	0.00040	mg/L		08/24/16 07:44	08/24/16 16:35	5
Lead	<0.00035		0.0013	0.00035	mg/L		08/24/16 07:44	08/24/16 16:35	5
Lithium	<0.0032		0.0050	0.0032	mg/L		08/24/16 07:44	08/24/16 16:35	5
Molybdenum	<0.00085		0.015	0.00085	mg/L		08/24/16 07:44	08/24/16 16:35	5
Selenium	<0.00024		0.0013	0.00024	mg/L		08/24/16 07:44	08/24/16 16:35	5
Thallium	<0.000085		0.00050	0.000085	mg/L		08/24/16 07:44	08/24/16 16:35	5

Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.000070		0.00020	0.000070	mg/L		08/22/16 10:10	08/25/16 13:12	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	150		5.0	3.4	mg/L			08/24/16 17:30	1

Client Sample Results

Client: Southern Company
Project/Site: CCR Plant Scherer

TestAmerica Job ID: 400-126027-1
SDG: Plant Scherer

Client Sample ID: SGWC-13

Lab Sample ID: 400-126027-15

Date Collected: 08/18/16 08:45

Matrix: Water

Date Received: 08/19/16 10:15

Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	5.8		1.0	0.89	mg/L			08/31/16 20:02	1
Fluoride	<0.082		0.20	0.082	mg/L			08/31/16 20:02	1
Sulfate	78		5.0	3.5	mg/L			09/01/16 22:18	5

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0010		0.0025	0.0010	mg/L		08/24/16 07:44	08/24/16 16:39	5
Arsenic	<0.00046		0.0013	0.00046	mg/L		08/24/16 07:44	08/24/16 16:39	5
Barium	0.022		0.0025	0.00049	mg/L		08/24/16 07:44	08/24/16 16:39	5
Beryllium	<0.00034		0.0025	0.00034	mg/L		08/24/16 07:44	08/24/16 16:39	5
Boron	0.51		0.050	0.021	mg/L		08/24/16 07:44	08/24/16 16:39	5
Cadmium	<0.00034		0.0025	0.00034	mg/L		08/24/16 07:44	08/24/16 16:39	5
Calcium	15		0.25	0.13	mg/L		08/24/16 07:44	08/24/16 16:39	5
Chromium	<0.0011		0.0025	0.0011	mg/L		08/24/16 07:44	08/24/16 16:39	5
Cobalt	0.0099		0.0025	0.00040	mg/L		08/24/16 07:44	08/24/16 16:39	5
Lead	<0.00035		0.0013	0.00035	mg/L		08/24/16 07:44	08/24/16 16:39	5
Lithium	<0.0032		0.0050	0.0032	mg/L		08/24/16 07:44	08/24/16 16:39	5
Molybdenum	<0.00085		0.015	0.00085	mg/L		08/24/16 07:44	08/24/16 16:39	5
Selenium	<0.00024		0.0013	0.00024	mg/L		08/24/16 07:44	08/24/16 16:39	5
Thallium	<0.000085		0.00050	0.000085	mg/L		08/24/16 07:44	08/24/16 16:39	5

Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.000070		0.00020	0.000070	mg/L		08/22/16 10:10	08/25/16 14:03	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	180		5.0	3.4	mg/L			08/24/16 17:30	1

Client Sample Results

Client: Southern Company
Project/Site: CCR Plant Scherer

TestAmerica Job ID: 400-126027-1
SDG: Plant Scherer

Client Sample ID: FB-5
Date Collected: 08/18/16 09:15
Date Received: 08/19/16 10:15

Lab Sample ID: 400-126027-16
Matrix: Water

Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<0.89		1.0	0.89	mg/L			08/31/16 20:25	1
Fluoride	<0.082		0.20	0.082	mg/L			08/31/16 20:25	1
Sulfate	<0.70		1.0	0.70	mg/L			08/31/16 20:25	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0010		0.0025	0.0010	mg/L		08/24/16 07:44	08/24/16 16:57	5
Arsenic	<0.00046		0.0013	0.00046	mg/L		08/24/16 07:44	08/24/16 16:57	5
Barium	<0.00049		0.0025	0.00049	mg/L		08/24/16 07:44	08/24/16 16:57	5
Beryllium	<0.00034		0.0025	0.00034	mg/L		08/24/16 07:44	08/24/16 16:57	5
Boron	<0.021		0.050	0.021	mg/L		08/24/16 07:44	08/24/16 16:57	5
Cadmium	<0.00034		0.0025	0.00034	mg/L		08/24/16 07:44	08/24/16 16:57	5
Calcium	<0.13		0.25	0.13	mg/L		08/24/16 07:44	08/24/16 16:57	5
Chromium	<0.0011		0.0025	0.0011	mg/L		08/24/16 07:44	08/24/16 16:57	5
Cobalt	<0.00040		0.0025	0.00040	mg/L		08/24/16 07:44	08/24/16 16:57	5
Lead	<0.00035		0.0013	0.00035	mg/L		08/24/16 07:44	08/24/16 16:57	5
Lithium	<0.0032		0.0050	0.0032	mg/L		08/24/16 07:44	08/24/16 16:57	5
Molybdenum	<0.00085		0.015	0.00085	mg/L		08/24/16 07:44	08/24/16 16:57	5
Selenium	<0.00024		0.0013	0.00024	mg/L		08/24/16 07:44	08/24/16 16:57	5
Thallium	<0.000085		0.00050	0.000085	mg/L		08/24/16 07:44	08/24/16 16:57	5

Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.000070		0.00020	0.000070	mg/L		08/22/16 10:10	08/25/16 13:22	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	<3.4		5.0	3.4	mg/L			08/24/16 17:30	1

Client Sample Results

Client: Southern Company
Project/Site: CCR Plant Scherer

TestAmerica Job ID: 400-126027-1
SDG: Plant Scherer

Client Sample ID: SGWC-15

Lab Sample ID: 400-126027-17

Date Collected: 08/18/16 11:20

Matrix: Water

Date Received: 08/19/16 10:15

Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	10		1.0	0.89	mg/L			08/31/16 20:47	1
Fluoride	0.14	J	0.20	0.082	mg/L			08/31/16 20:47	1
Sulfate	190		5.0	3.5	mg/L			09/01/16 22:40	5

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0010		0.0025	0.0010	mg/L		08/24/16 07:44	08/24/16 17:02	5
Arsenic	0.0015		0.0013	0.00046	mg/L		08/24/16 07:44	08/24/16 17:02	5
Barium	0.043		0.0025	0.00049	mg/L		08/24/16 07:44	08/24/16 17:02	5
Beryllium	0.00037	J	0.0025	0.00034	mg/L		08/24/16 07:44	08/24/16 17:02	5
Boron	1.5		0.050	0.021	mg/L		08/24/16 07:44	08/24/16 17:02	5
Cadmium	<0.00034		0.0025	0.00034	mg/L		08/24/16 07:44	08/24/16 17:02	5
Calcium	15		0.25	0.13	mg/L		08/24/16 07:44	08/24/16 17:02	5
Chromium	0.034		0.0025	0.0011	mg/L		08/24/16 07:44	08/24/16 17:02	5
Cobalt	0.26		0.0025	0.00040	mg/L		08/24/16 07:44	08/24/16 17:02	5
Lead	<0.00035		0.0013	0.00035	mg/L		08/24/16 07:44	08/24/16 17:02	5
Lithium	<0.0032		0.0050	0.0032	mg/L		08/24/16 07:44	08/24/16 17:02	5
Molybdenum	<0.00085		0.015	0.00085	mg/L		08/24/16 07:44	08/24/16 17:02	5
Selenium	0.0014		0.0013	0.00024	mg/L		08/24/16 07:44	08/24/16 17:02	5
Thallium	<0.000085		0.00050	0.000085	mg/L		08/24/16 07:44	08/24/16 17:02	5

Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.00011	J	0.00020	0.000070	mg/L		08/22/16 10:10	08/25/16 13:23	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	310		5.0	3.4	mg/L			08/24/16 17:30	1

Client Sample Results

Client: Southern Company
Project/Site: CCR Plant Scherer

TestAmerica Job ID: 400-126027-1
SDG: Plant Scherer

Client Sample ID: SGWC-17

Lab Sample ID: 400-126027-18

Date Collected: 08/18/16 13:47

Matrix: Water

Date Received: 08/19/16 10:15

Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	8.8		1.0	0.89	mg/L			08/31/16 21:10	1
Fluoride	<0.082		0.20	0.082	mg/L			08/31/16 21:10	1
Sulfate	130		5.0	3.5	mg/L			09/01/16 23:26	5

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0010		0.0025	0.0010	mg/L		08/24/16 07:44	08/24/16 17:06	5
Arsenic	<0.00046		0.0013	0.00046	mg/L		08/24/16 07:44	08/24/16 17:06	5
Barium	0.016		0.0025	0.00049	mg/L		08/24/16 07:44	08/24/16 17:06	5
Beryllium	<0.00034		0.0025	0.00034	mg/L		08/24/16 07:44	08/24/16 17:06	5
Boron	0.24		0.050	0.021	mg/L		08/24/16 07:44	08/24/16 17:06	5
Cadmium	<0.00034		0.0025	0.00034	mg/L		08/24/16 07:44	08/24/16 17:06	5
Calcium	35		0.25	0.13	mg/L		08/24/16 07:44	08/24/16 17:06	5
Chromium	0.0027		0.0025	0.0011	mg/L		08/24/16 07:44	08/24/16 17:06	5
Cobalt	0.00078 J		0.0025	0.00040	mg/L		08/24/16 07:44	08/24/16 17:06	5
Lead	<0.00035		0.0013	0.00035	mg/L		08/24/16 07:44	08/24/16 17:06	5
Lithium	<0.0032		0.0050	0.0032	mg/L		08/24/16 07:44	08/24/16 17:06	5
Molybdenum	<0.00085		0.015	0.00085	mg/L		08/24/16 07:44	08/24/16 17:06	5
Selenium	<0.00024		0.0013	0.00024	mg/L		08/24/16 07:44	08/24/16 17:06	5
Thallium	<0.000085		0.00050	0.000085	mg/L		08/24/16 07:44	08/24/16 17:06	5

Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.000070		0.00020	0.000070	mg/L		08/22/16 10:10	08/25/16 13:24	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	310		5.0	3.4	mg/L			08/24/16 17:30	1

Client Sample Results

Client: Southern Company
Project/Site: CCR Plant Scherer

TestAmerica Job ID: 400-126027-1
SDG: Plant Scherer

Client Sample ID: SGWC-22

Lab Sample ID: 400-126027-19

Date Collected: 08/19/16 08:33

Matrix: Water

Date Received: 08/20/16 08:56

Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	11		1.0	0.89	mg/L			08/31/16 21:33	1
Fluoride	<0.082		0.20	0.082	mg/L			08/31/16 21:33	1
Sulfate	81		5.0	3.5	mg/L			09/01/16 23:49	5

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0010		0.0025	0.0010	mg/L		08/24/16 07:44	08/24/16 17:11	5
Arsenic	<0.00046		0.0013	0.00046	mg/L		08/24/16 07:44	08/24/16 17:11	5
Barium	0.096		0.0025	0.00049	mg/L		08/24/16 07:44	08/24/16 17:11	5
Beryllium	<0.00034		0.0025	0.00034	mg/L		08/24/16 07:44	08/24/16 17:11	5
Boron	0.37		0.050	0.021	mg/L		08/24/16 07:44	08/24/16 17:11	5
Cadmium	<0.00034		0.0025	0.00034	mg/L		08/24/16 07:44	08/24/16 17:11	5
Calcium	22		0.25	0.13	mg/L		08/24/16 07:44	08/24/16 17:11	5
Chromium	<0.0011		0.0025	0.0011	mg/L		08/24/16 07:44	08/24/16 17:11	5
Cobalt	0.0045		0.0025	0.00040	mg/L		08/24/16 07:44	08/24/16 17:11	5
Lead	<0.00035		0.0013	0.00035	mg/L		08/24/16 07:44	08/24/16 17:11	5
Lithium	<0.0032		0.0050	0.0032	mg/L		08/24/16 07:44	08/24/16 17:11	5
Molybdenum	<0.00085		0.015	0.00085	mg/L		08/24/16 07:44	08/24/16 17:11	5
Selenium	<0.00024		0.0013	0.00024	mg/L		08/24/16 07:44	08/24/16 17:11	5
Thallium	<0.000085		0.00050	0.000085	mg/L		08/24/16 07:44	08/24/16 17:11	5

Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.000070		0.00020	0.000070	mg/L		08/24/16 09:56	08/25/16 13:49	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	230		5.0	3.4	mg/L			08/25/16 17:26	1

Client Sample Results

Client: Southern Company
Project/Site: CCR Plant Scherer

TestAmerica Job ID: 400-126027-1
SDG: Plant Scherer

Client Sample ID: FB-6
Date Collected: 08/19/16 08:53
Date Received: 08/20/16 08:56

Lab Sample ID: 400-126027-20
Matrix: Water

Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<0.89		1.0	0.89	mg/L			08/31/16 21:56	1
Fluoride	<0.082		0.20	0.082	mg/L			08/31/16 21:56	1
Sulfate	<0.70		1.0	0.70	mg/L			08/31/16 21:56	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0010		0.0025	0.0010	mg/L		08/24/16 07:44	08/24/16 17:15	5
Arsenic	<0.00046		0.0013	0.00046	mg/L		08/24/16 07:44	08/24/16 17:15	5
Barium	0.0019	J	0.0025	0.00049	mg/L		08/24/16 07:44	08/24/16 17:15	5
Beryllium	<0.00034		0.0025	0.00034	mg/L		08/24/16 07:44	08/24/16 17:15	5
Boron	<0.021		0.050	0.021	mg/L		08/24/16 07:44	08/24/16 17:15	5
Cadmium	<0.00034		0.0025	0.00034	mg/L		08/24/16 07:44	08/24/16 17:15	5
Calcium	<0.13		0.25	0.13	mg/L		08/24/16 07:44	08/24/16 17:15	5
Chromium	<0.0011		0.0025	0.0011	mg/L		08/24/16 07:44	08/24/16 17:15	5
Cobalt	<0.00040		0.0025	0.00040	mg/L		08/24/16 07:44	08/24/16 17:15	5
Lead	<0.00035		0.0013	0.00035	mg/L		08/24/16 07:44	08/24/16 17:15	5
Lithium	<0.0032		0.0050	0.0032	mg/L		08/24/16 07:44	08/24/16 17:15	5
Molybdenum	<0.00085		0.015	0.00085	mg/L		08/24/16 07:44	08/24/16 17:15	5
Selenium	<0.00024		0.0013	0.00024	mg/L		08/24/16 07:44	08/24/16 17:15	5
Thallium	<0.000085		0.00050	0.000085	mg/L		08/24/16 07:44	08/24/16 17:15	5

Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.000070		0.00020	0.000070	mg/L		08/24/16 09:56	08/25/16 13:50	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	12		5.0	3.4	mg/L			08/25/16 17:26	1

Client Sample Results

Client: Southern Company
Project/Site: CCR Plant Scherer

TestAmerica Job ID: 400-126027-1
SDG: Plant Scherer

Client Sample ID: EQB-6
Date Collected: 08/19/16 09:45
Date Received: 08/20/16 08:56

Lab Sample ID: 400-126027-21
Matrix: Water

Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<0.89		1.0	0.89	mg/L			08/31/16 22:41	1
Fluoride	<0.082		0.20	0.082	mg/L			08/31/16 22:41	1
Sulfate	<0.70		1.0	0.70	mg/L			08/31/16 22:41	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0010		0.0025	0.0010	mg/L		08/24/16 07:44	08/24/16 17:20	5
Arsenic	<0.00046		0.0013	0.00046	mg/L		08/24/16 07:44	08/24/16 17:20	5
Barium	0.0022	J	0.0025	0.00049	mg/L		08/24/16 07:44	08/24/16 17:20	5
Beryllium	<0.00034		0.0025	0.00034	mg/L		08/24/16 07:44	08/24/16 17:20	5
Boron	<0.021		0.050	0.021	mg/L		08/24/16 07:44	08/24/16 17:20	5
Cadmium	<0.00034		0.0025	0.00034	mg/L		08/24/16 07:44	08/24/16 17:20	5
Calcium	<0.13		0.25	0.13	mg/L		08/24/16 07:44	08/24/16 17:20	5
Chromium	<0.0011		0.0025	0.0011	mg/L		08/24/16 07:44	08/24/16 17:20	5
Cobalt	<0.00040		0.0025	0.00040	mg/L		08/24/16 07:44	08/24/16 17:20	5
Lead	<0.00035		0.0013	0.00035	mg/L		08/24/16 07:44	08/24/16 17:20	5
Lithium	<0.0032		0.0050	0.0032	mg/L		08/24/16 07:44	08/24/16 17:20	5
Molybdenum	<0.00085		0.015	0.00085	mg/L		08/24/16 07:44	08/24/16 17:20	5
Selenium	<0.00024		0.0013	0.00024	mg/L		08/24/16 07:44	08/24/16 17:20	5
Thallium	<0.000085		0.00050	0.000085	mg/L		08/24/16 07:44	08/24/16 17:20	5

Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.000070		0.00020	0.000070	mg/L		08/24/16 09:56	08/25/16 13:51	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	16		5.0	3.4	mg/L			08/25/16 17:26	1

Client Sample Results

Client: Southern Company
Project/Site: CCR Plant Scherer

TestAmerica Job ID: 400-126027-1
SDG: Plant Scherer

Client Sample ID: SGWC-23

Lab Sample ID: 400-126027-22

Date Collected: 08/19/16 07:58

Matrix: Water

Date Received: 08/20/16 08:56

Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	9.6		1.0	0.89	mg/L			08/31/16 23:04	1
Fluoride	<0.082		0.20	0.082	mg/L			08/31/16 23:04	1
Sulfate	120		5.0	3.5	mg/L			09/02/16 00:12	5

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0010		0.0025	0.0010	mg/L		08/24/16 07:44	08/24/16 17:24	5
Arsenic	<0.00046		0.0013	0.00046	mg/L		08/24/16 07:44	08/24/16 17:24	5
Barium	0.093		0.0025	0.00049	mg/L		08/24/16 07:44	08/24/16 17:24	5
Beryllium	<0.00034		0.0025	0.00034	mg/L		08/24/16 07:44	08/24/16 17:24	5
Boron	0.58		0.050	0.021	mg/L		08/24/16 07:44	08/24/16 17:24	5
Cadmium	<0.00034		0.0025	0.00034	mg/L		08/24/16 07:44	08/24/16 17:24	5
Calcium	29		0.25	0.13	mg/L		08/24/16 07:44	08/24/16 17:24	5
Chromium	<0.0011		0.0025	0.0011	mg/L		08/24/16 07:44	08/24/16 17:24	5
Cobalt	<0.00040		0.0025	0.00040	mg/L		08/24/16 07:44	08/24/16 17:24	5
Lead	<0.00035		0.0013	0.00035	mg/L		08/24/16 07:44	08/24/16 17:24	5
Lithium	<0.0032		0.0050	0.0032	mg/L		08/24/16 07:44	08/24/16 17:24	5
Molybdenum	<0.00085		0.015	0.00085	mg/L		08/24/16 07:44	08/24/16 17:24	5
Selenium	<0.00024		0.0013	0.00024	mg/L		08/24/16 07:44	08/24/16 17:24	5
Thallium	<0.000085		0.00050	0.000085	mg/L		08/24/16 07:44	08/24/16 17:24	5

Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.000071	J	0.00020	0.000070	mg/L		08/24/16 09:56	08/25/16 13:53	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	290		5.0	3.4	mg/L			08/25/16 17:26	1

Client Sample Results

Client: Southern Company
Project/Site: CCR Plant Scherer

TestAmerica Job ID: 400-126027-1
SDG: Plant Scherer

Client Sample ID: DUP-6
Date Collected: 08/19/16 00:00
Date Received: 08/20/16 08:56

Lab Sample ID: 400-126027-23
Matrix: Water

Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	9.6		1.0	0.89	mg/L			08/31/16 23:27	1
Fluoride	<0.082		0.20	0.082	mg/L			08/31/16 23:27	1
Sulfate	120		5.0	3.5	mg/L			09/02/16 00:35	5

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0010		0.0025	0.0010	mg/L		08/24/16 07:44	08/24/16 17:29	5
Arsenic	<0.00046		0.0013	0.00046	mg/L		08/24/16 07:44	08/24/16 17:29	5
Barium	0.094		0.0025	0.00049	mg/L		08/24/16 07:44	08/24/16 17:29	5
Beryllium	<0.00034		0.0025	0.00034	mg/L		08/24/16 07:44	08/24/16 17:29	5
Boron	0.58		0.050	0.021	mg/L		08/24/16 07:44	08/24/16 17:29	5
Cadmium	<0.00034		0.0025	0.00034	mg/L		08/24/16 07:44	08/24/16 17:29	5
Calcium	29		0.25	0.13	mg/L		08/24/16 07:44	08/24/16 17:29	5
Chromium	<0.0011		0.0025	0.0011	mg/L		08/24/16 07:44	08/24/16 17:29	5
Cobalt	<0.00040		0.0025	0.00040	mg/L		08/24/16 07:44	08/24/16 17:29	5
Lead	<0.00035		0.0013	0.00035	mg/L		08/24/16 07:44	08/24/16 17:29	5
Lithium	0.0033	J	0.0050	0.0032	mg/L		08/24/16 07:44	08/24/16 17:29	5
Molybdenum	<0.00085		0.015	0.00085	mg/L		08/24/16 07:44	08/24/16 17:29	5
Selenium	<0.00024		0.0013	0.00024	mg/L		08/24/16 07:44	08/24/16 17:29	5
Thallium	<0.000085		0.00050	0.000085	mg/L		08/24/16 07:44	08/24/16 17:29	5

Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.000070		0.00020	0.000070	mg/L		08/24/16 09:56	08/25/16 13:54	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	300		5.0	3.4	mg/L			08/25/16 17:26	1

Definitions/Glossary

Client: Southern Company
Project/Site: CCR Plant Scherer

TestAmerica Job ID: 400-126027-1
SDG: Plant Scherer

Qualifiers

HPLC/IC

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.
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.

Metals

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.
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.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
α	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CNF	Contains no Free Liquid
DER	Duplicate error ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision level concentration
MDA	Minimum detectable activity
EDL	Estimated Detection Limit
MDC	Minimum detectable concentration
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
NC	Not Calculated
ND	Not detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RER	Relative error ratio
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)

Lab Chronicle

Client: Southern Company
Project/Site: CCR Plant Scherer

TestAmerica Job ID: 400-126027-1
SDG: Plant Scherer

Client Sample ID: FB-4
Date Collected: 08/17/16 09:08
Date Received: 08/18/16 10:07

Lab Sample ID: 400-126027-1
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	300.0		1	320190	08/25/16 01:02	DHW	TAL PEN
Total Recoverable	Prep	3005A			319410	08/20/16 13:29	DN1	TAL PEN
Total Recoverable	Analysis	6020		5	319655	08/22/16 17:07	RJB	TAL PEN
Total/NA	Prep	7470A			319530	08/22/16 10:10	JAP	TAL PEN
Total/NA	Analysis	7470A		1	320137	08/25/16 12:41	JAP	TAL PEN
Total/NA	Analysis	SM 2540C		1	319740	08/23/16 13:43	TET	TAL PEN

Client Sample ID: SGWA-25
Date Collected: 08/17/16 09:46
Date Received: 08/18/16 10:07

Lab Sample ID: 400-126027-2
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	300.0		1	320190	08/25/16 02:10	DHW	TAL PEN
Total Recoverable	Prep	3005A			319410	08/20/16 13:29	DN1	TAL PEN
Total Recoverable	Analysis	6020		5	319655	08/22/16 17:25	RJB	TAL PEN
Total/NA	Prep	7470A			319530	08/22/16 10:10	JAP	TAL PEN
Total/NA	Analysis	7470A		1	320137	08/25/16 12:46	JAP	TAL PEN
Total/NA	Analysis	SM 2540C		1	319740	08/23/16 13:43	TET	TAL PEN

Client Sample ID: SGWC-7
Date Collected: 08/17/16 11:25
Date Received: 08/18/16 10:07

Lab Sample ID: 400-126027-3
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	300.0		1	320190	08/25/16 02:33	DHW	TAL PEN
Total Recoverable	Prep	3005A			319410	08/20/16 13:29	DN1	TAL PEN
Total Recoverable	Analysis	6020		5	319655	08/22/16 17:30	RJB	TAL PEN
Total/NA	Prep	7470A			319530	08/22/16 10:10	JAP	TAL PEN
Total/NA	Analysis	7470A		1	320137	08/25/16 12:48	JAP	TAL PEN
Total/NA	Analysis	SM 2540C		1	319749	08/23/16 14:29	TET	TAL PEN

Client Sample ID: SGWC-11
Date Collected: 08/17/16 14:45
Date Received: 08/18/16 10:07

Lab Sample ID: 400-126027-4
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	300.0		1	320190	08/25/16 02:56	DHW	TAL PEN
Total Recoverable	Prep	3005A			319410	08/20/16 13:29	DN1	TAL PEN
Total Recoverable	Analysis	6020		5	319655	08/22/16 17:34	RJB	TAL PEN
Total/NA	Prep	7470A			319530	08/22/16 10:10	JAP	TAL PEN
Total/NA	Analysis	7470A		1	320137	08/25/16 12:49	JAP	TAL PEN
Total/NA	Analysis	SM 2540C		1	319749	08/23/16 14:29	TET	TAL PEN

TestAmerica Pensacola

Lab Chronicle

Client: Southern Company
Project/Site: CCR Plant Scherer

TestAmerica Job ID: 400-126027-1
SDG: Plant Scherer

Client Sample ID: SGWC-6

Lab Sample ID: 400-126027-5

Date Collected: 08/17/16 11:40

Matrix: Water

Date Received: 08/18/16 10:07

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	300.0		1	320190	08/25/16 03:19	DHW	TAL PEN
Total Recoverable	Prep	3005A			319410	08/20/16 13:29	DN1	TAL PEN
Total Recoverable	Analysis	6020		5	319655	08/22/16 17:39	RJB	TAL PEN
Total/NA	Prep	7470A			319530	08/22/16 10:10	JAP	TAL PEN
Total/NA	Analysis	7470A		1	320137	08/25/16 13:01	JAP	TAL PEN
Total/NA	Analysis	SM 2540C		1	319749	08/23/16 14:29	TET	TAL PEN

Client Sample ID: SGWC-10

Lab Sample ID: 400-126027-6

Date Collected: 08/17/16 14:15

Matrix: Water

Date Received: 08/18/16 10:07

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	300.0		1	320190	08/25/16 04:27	DHW	TAL PEN
Total Recoverable	Prep	3005A			319410	08/20/16 13:29	DN1	TAL PEN
Total Recoverable	Analysis	6020		5	319655	08/22/16 17:43	RJB	TAL PEN
Total/NA	Prep	7470A			319530	08/22/16 10:10	JAP	TAL PEN
Total/NA	Analysis	7470A		1	320137	08/25/16 13:02	JAP	TAL PEN
Total/NA	Analysis	SM 2540C		1	319749	08/23/16 14:29	TET	TAL PEN

Client Sample ID: EQB-4

Lab Sample ID: 400-126027-7

Date Collected: 08/17/16 15:45

Matrix: Water

Date Received: 08/18/16 10:07

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	300.0		1	320190	08/25/16 04:50	DHW	TAL PEN
Total Recoverable	Prep	3005A			319410	08/20/16 13:29	DN1	TAL PEN
Total Recoverable	Analysis	6020		5	319655	08/22/16 17:48	RJB	TAL PEN
Total/NA	Prep	7470A			319530	08/22/16 10:10	JAP	TAL PEN
Total/NA	Analysis	7470A		1	320137	08/25/16 13:04	JAP	TAL PEN
Total/NA	Analysis	SM 2540C		1	319749	08/23/16 14:29	TET	TAL PEN

Client Sample ID: SGWA-4

Lab Sample ID: 400-126027-8

Date Collected: 08/17/16 10:49

Matrix: Water

Date Received: 08/18/16 10:07

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	300.0		1	320190	08/25/16 05:13	DHW	TAL PEN
Total Recoverable	Prep	3005A			319410	08/20/16 13:29	DN1	TAL PEN
Total Recoverable	Analysis	6020		5	319655	08/22/16 17:52	RJB	TAL PEN
Total/NA	Prep	7470A			319530	08/22/16 10:10	JAP	TAL PEN
Total/NA	Analysis	7470A		1	320137	08/25/16 13:05	JAP	TAL PEN
Total/NA	Analysis	SM 2540C		1	319749	08/23/16 14:29	TET	TAL PEN

TestAmerica Pensacola

Lab Chronicle

Client: Southern Company
Project/Site: CCR Plant Scherer

TestAmerica Job ID: 400-126027-1
SDG: Plant Scherer

Client Sample ID: SGWC-8

Date Collected: 08/17/16 14:14

Date Received: 08/18/16 10:07

Lab Sample ID: 400-126027-9

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	300.0		1	320190	08/25/16 05:36	DHW	TAL PEN
Total/NA	Analysis	300.0		5	320276	08/26/16 05:42	KH1	TAL PEN
Total Recoverable	Prep	3005A			319410	08/20/16 13:29	DN1	TAL PEN
Total Recoverable	Analysis	6020		5	319655	08/22/16 17:57	RJB	TAL PEN
Total/NA	Prep	7470A			319530	08/22/16 10:10	JAP	TAL PEN
Total/NA	Analysis	7470A		1	320137	08/25/16 13:06	JAP	TAL PEN
Total/NA	Analysis	SM 2540C		1	319749	08/23/16 14:29	TET	TAL PEN

Client Sample ID: SGWC-12

Date Collected: 08/18/16 09:01

Date Received: 08/19/16 10:15

Lab Sample ID: 400-126027-10

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	300.0		1	320978	08/31/16 16:36	KH1	TAL PEN
Total Recoverable	Prep	3005A			319849	08/24/16 07:44	RJB	TAL PEN
Total Recoverable	Analysis	6020		5	320555	08/24/16 15:17	RJB	TAL PEN
Total/NA	Prep	7470A			319530	08/22/16 10:10	JAP	TAL PEN
Total/NA	Analysis	7470A		1	320137	08/25/16 13:07	JAP	TAL PEN
Total/NA	Analysis	SM 2540C		1	319993	08/24/16 17:30	TET	TAL PEN

Client Sample ID: SGWC-14

Date Collected: 08/18/16 11:01

Date Received: 08/19/16 10:15

Lab Sample ID: 400-126027-11

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	300.0		1	320978	08/31/16 17:45	KH1	TAL PEN
Total/NA	Analysis	300.0		5	321170	09/01/16 21:55	KH1	TAL PEN
Total Recoverable	Prep	3005A			319849	08/24/16 07:44	RJB	TAL PEN
Total Recoverable	Analysis	6020		5	320555	08/24/16 16:21	RJB	TAL PEN
Total/NA	Prep	7470A			319530	08/22/16 10:10	JAP	TAL PEN
Total/NA	Analysis	7470A		1	320137	08/25/16 13:08	JAP	TAL PEN
Total/NA	Analysis	SM 2540C		1	319993	08/24/16 17:30	TET	TAL PEN

Client Sample ID: SGWC-16

Date Collected: 08/18/16 13:42

Date Received: 08/19/16 10:15

Lab Sample ID: 400-126027-12

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	300.0		1	320978	08/31/16 18:08	KH1	TAL PEN
Total Recoverable	Prep	3005A			319849	08/24/16 07:44	RJB	TAL PEN
Total Recoverable	Analysis	6020		5	320555	08/24/16 16:25	RJB	TAL PEN
Total/NA	Prep	7470A			319530	08/22/16 10:10	JAP	TAL PEN

TestAmerica Pensacola

Lab Chronicle

Client: Southern Company
Project/Site: CCR Plant Scherer

TestAmerica Job ID: 400-126027-1
SDG: Plant Scherer

Client Sample ID: SGWC-16

Date Collected: 08/18/16 13:42

Date Received: 08/19/16 10:15

Lab Sample ID: 400-126027-12

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	7470A		1	320137	08/25/16 13:10	JAP	TAL PEN
Total/NA	Analysis	SM 2540C		1	319993	08/24/16 17:30	TET	TAL PEN

Client Sample ID: EQB-5

Date Collected: 08/18/16 14:47

Date Received: 08/19/16 10:15

Lab Sample ID: 400-126027-13

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	300.0		1	320978	08/31/16 18:31	KH1	TAL PEN
Total Recoverable	Prep	3005A			319849	08/24/16 07:44	RJB	TAL PEN
Total Recoverable	Analysis	6020		5	320555	08/24/16 16:30	RJB	TAL PEN
Total/NA	Prep	7470A			319530	08/22/16 10:10	JAP	TAL PEN
Total/NA	Analysis	7470A		1	320137	08/25/16 13:11	JAP	TAL PEN
Total/NA	Analysis	SM 2540C		1	319993	08/24/16 17:30	TET	TAL PEN

Client Sample ID: DUP-5

Date Collected: 08/18/16 00:00

Date Received: 08/19/16 10:15

Lab Sample ID: 400-126027-14

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	300.0		1	320978	08/31/16 18:53	KH1	TAL PEN
Total Recoverable	Prep	3005A			319849	08/24/16 07:44	RJB	TAL PEN
Total Recoverable	Analysis	6020		5	320555	08/24/16 16:35	RJB	TAL PEN
Total/NA	Prep	7470A			319530	08/22/16 10:10	JAP	TAL PEN
Total/NA	Analysis	7470A		1	320137	08/25/16 13:12	JAP	TAL PEN
Total/NA	Analysis	SM 2540C		1	319993	08/24/16 17:30	TET	TAL PEN

Client Sample ID: SGWC-13

Date Collected: 08/18/16 08:45

Date Received: 08/19/16 10:15

Lab Sample ID: 400-126027-15

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	300.0		1	320978	08/31/16 20:02	KH1	TAL PEN
Total/NA	Analysis	300.0		5	321170	09/01/16 22:18	KH1	TAL PEN
Total Recoverable	Prep	3005A			319849	08/24/16 07:44	RJB	TAL PEN
Total Recoverable	Analysis	6020		5	320555	08/24/16 16:39	RJB	TAL PEN
Total/NA	Prep	7470A			319530	08/22/16 10:10	JAP	TAL PEN
Total/NA	Analysis	7470A		1	320137	08/25/16 14:03	JAP	TAL PEN
Total/NA	Analysis	SM 2540C		1	319993	08/24/16 17:30	TET	TAL PEN

Lab Chronicle

Client: Southern Company
Project/Site: CCR Plant Scherer

TestAmerica Job ID: 400-126027-1
SDG: Plant Scherer

Client Sample ID: FB-5

Lab Sample ID: 400-126027-16

Date Collected: 08/18/16 09:15

Matrix: Water

Date Received: 08/19/16 10:15

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	300.0		1	320978	08/31/16 20:25	KH1	TAL PEN
Total Recoverable	Prep	3005A			319849	08/24/16 07:44	RJB	TAL PEN
Total Recoverable	Analysis	6020		5	320555	08/24/16 16:57	RJB	TAL PEN
Total/NA	Prep	7470A			319530	08/22/16 10:10	JAP	TAL PEN
Total/NA	Analysis	7470A		1	320137	08/25/16 13:22	JAP	TAL PEN
Total/NA	Analysis	SM 2540C		1	319993	08/24/16 17:30	TET	TAL PEN

Client Sample ID: SGWC-15

Lab Sample ID: 400-126027-17

Date Collected: 08/18/16 11:20

Matrix: Water

Date Received: 08/19/16 10:15

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	300.0		1	320978	08/31/16 20:47	KH1	TAL PEN
Total/NA	Analysis	300.0		5	321170	09/01/16 22:40	KH1	TAL PEN
Total Recoverable	Prep	3005A			319849	08/24/16 07:44	RJB	TAL PEN
Total Recoverable	Analysis	6020		5	320555	08/24/16 17:02	RJB	TAL PEN
Total/NA	Prep	7470A			319530	08/22/16 10:10	JAP	TAL PEN
Total/NA	Analysis	7470A		1	320137	08/25/16 13:23	JAP	TAL PEN
Total/NA	Analysis	SM 2540C		1	319993	08/24/16 17:30	TET	TAL PEN

Client Sample ID: SGWC-17

Lab Sample ID: 400-126027-18

Date Collected: 08/18/16 13:47

Matrix: Water

Date Received: 08/19/16 10:15

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	300.0		1	320978	08/31/16 21:10	KH1	TAL PEN
Total/NA	Analysis	300.0		5	321170	09/01/16 23:26	KH1	TAL PEN
Total Recoverable	Prep	3005A			319849	08/24/16 07:44	RJB	TAL PEN
Total Recoverable	Analysis	6020		5	320555	08/24/16 17:06	RJB	TAL PEN
Total/NA	Prep	7470A			319530	08/22/16 10:10	JAP	TAL PEN
Total/NA	Analysis	7470A		1	320137	08/25/16 13:24	JAP	TAL PEN
Total/NA	Analysis	SM 2540C		1	319993	08/24/16 17:30	TET	TAL PEN

Client Sample ID: SGWC-22

Lab Sample ID: 400-126027-19

Date Collected: 08/19/16 08:33

Matrix: Water

Date Received: 08/20/16 08:56

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	300.0		1	320978	08/31/16 21:33	KH1	TAL PEN
Total/NA	Analysis	300.0		5	321170	09/01/16 23:49	KH1	TAL PEN
Total Recoverable	Prep	3005A			319849	08/24/16 07:44	RJB	TAL PEN
Total Recoverable	Analysis	6020		5	320555	08/24/16 17:11	RJB	TAL PEN

TestAmerica Pensacola

Lab Chronicle

Client: Southern Company
Project/Site: CCR Plant Scherer

TestAmerica Job ID: 400-126027-1
SDG: Plant Scherer

Client Sample ID: SGWC-22

Lab Sample ID: 400-126027-19

Date Collected: 08/19/16 08:33

Matrix: Water

Date Received: 08/20/16 08:56

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	7470A			319899	08/24/16 09:56	JAP	TAL PEN
Total/NA	Analysis	7470A		1	320137	08/25/16 13:49	JAP	TAL PEN
Total/NA	Analysis	SM 2540C		1	320171	08/25/16 17:26	TET	TAL PEN

Client Sample ID: FB-6

Lab Sample ID: 400-126027-20

Date Collected: 08/19/16 08:53

Matrix: Water

Date Received: 08/20/16 08:56

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	300.0		1	320978	08/31/16 21:56	KH1	TAL PEN
Total Recoverable	Prep	3005A			319849	08/24/16 07:44	RJB	TAL PEN
Total Recoverable	Analysis	6020		5	320555	08/24/16 17:15	RJB	TAL PEN
Total/NA	Prep	7470A			319899	08/24/16 09:56	JAP	TAL PEN
Total/NA	Analysis	7470A		1	320137	08/25/16 13:50	JAP	TAL PEN
Total/NA	Analysis	SM 2540C		1	320171	08/25/16 17:26	TET	TAL PEN

Client Sample ID: EQB-6

Lab Sample ID: 400-126027-21

Date Collected: 08/19/16 09:45

Matrix: Water

Date Received: 08/20/16 08:56

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	300.0		1	320978	08/31/16 22:41	KH1	TAL PEN
Total Recoverable	Prep	3005A			319849	08/24/16 07:44	RJB	TAL PEN
Total Recoverable	Analysis	6020		5	320555	08/24/16 17:20	RJB	TAL PEN
Total/NA	Prep	7470A			319899	08/24/16 09:56	JAP	TAL PEN
Total/NA	Analysis	7470A		1	320137	08/25/16 13:51	JAP	TAL PEN
Total/NA	Analysis	SM 2540C		1	320171	08/25/16 17:26	TET	TAL PEN

Client Sample ID: SGWC-23

Lab Sample ID: 400-126027-22

Date Collected: 08/19/16 07:58

Matrix: Water

Date Received: 08/20/16 08:56

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	300.0		1	320978	08/31/16 23:04	KH1	TAL PEN
Total/NA	Analysis	300.0		5	321170	09/02/16 00:12	KH1	TAL PEN
Total Recoverable	Prep	3005A			319849	08/24/16 07:44	RJB	TAL PEN
Total Recoverable	Analysis	6020		5	320555	08/24/16 17:24	RJB	TAL PEN
Total/NA	Prep	7470A			319899	08/24/16 09:56	JAP	TAL PEN
Total/NA	Analysis	7470A		1	320137	08/25/16 13:53	JAP	TAL PEN
Total/NA	Analysis	SM 2540C		1	320171	08/25/16 17:26	TET	TAL PEN

Lab Chronicle

Client: Southern Company
Project/Site: CCR Plant Scherer

TestAmerica Job ID: 400-126027-1
SDG: Plant Scherer

Client Sample ID: DUP-6

Date Collected: 08/19/16 00:00

Date Received: 08/20/16 08:56

Lab Sample ID: 400-126027-23

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	300.0		1	320978	08/31/16 23:27	KH1	TAL PEN
Total/NA	Analysis	300.0		5	321170	09/02/16 00:35	KH1	TAL PEN
Total Recoverable	Prep	3005A			319849	08/24/16 07:44	RJB	TAL PEN
Total Recoverable	Analysis	6020		5	320555	08/24/16 17:29	RJB	TAL PEN
Total/NA	Prep	7470A			319899	08/24/16 09:56	JAP	TAL PEN
Total/NA	Analysis	7470A		1	320137	08/25/16 13:54	JAP	TAL PEN
Total/NA	Analysis	SM 2540C		1	320171	08/25/16 17:26	TET	TAL PEN

Laboratory References:

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

QC Association Summary

Client: Southern Company
Project/Site: CCR Plant Scherer

TestAmerica Job ID: 400-126027-1
SDG: Plant Scherer

HPLC/IC

Analysis Batch: 320190

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-126027-1	FB-4	Total/NA	Water	300.0	
400-126027-2	SGWA-25	Total/NA	Water	300.0	
400-126027-3	SGWC-7	Total/NA	Water	300.0	
400-126027-4	SGWC-11	Total/NA	Water	300.0	
400-126027-5	SGWC-6	Total/NA	Water	300.0	
400-126027-6	SGWC-10	Total/NA	Water	300.0	
400-126027-7	EQB-4	Total/NA	Water	300.0	
400-126027-8	SGWA-4	Total/NA	Water	300.0	
400-126027-9	SGWC-8	Total/NA	Water	300.0	
MB 400-320190/85	Method Blank	Total/NA	Water	300.0	
LCS 400-320190/86	Lab Control Sample	Total/NA	Water	300.0	
LCSD 400-320190/87	Lab Control Sample Dup	Total/NA	Water	300.0	
400-126027-1 MS	FB-4	Total/NA	Water	300.0	
400-126027-1 MSD	FB-4	Total/NA	Water	300.0	

Analysis Batch: 320276

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-126027-9	SGWC-8	Total/NA	Water	300.0	
MB 400-320276/4	Method Blank	Total/NA	Water	300.0	
LCS 400-320276/5	Lab Control Sample	Total/NA	Water	300.0	
LCSD 400-320276/6	Lab Control Sample Dup	Total/NA	Water	300.0	
400-126102-C-11 MS	Matrix Spike	Total/NA	Water	300.0	
400-126102-C-11 MSD	Matrix Spike Duplicate	Total/NA	Water	300.0	

Analysis Batch: 320978

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-126027-10	SGWC-12	Total/NA	Water	300.0	
400-126027-11	SGWC-14	Total/NA	Water	300.0	
400-126027-12	SGWC-16	Total/NA	Water	300.0	
400-126027-13	EQB-5	Total/NA	Water	300.0	
400-126027-14	DUP-5	Total/NA	Water	300.0	
400-126027-15	SGWC-13	Total/NA	Water	300.0	
400-126027-16	FB-5	Total/NA	Water	300.0	
400-126027-17	SGWC-15	Total/NA	Water	300.0	
400-126027-18	SGWC-17	Total/NA	Water	300.0	
400-126027-19	SGWC-22	Total/NA	Water	300.0	
400-126027-20	FB-6	Total/NA	Water	300.0	
400-126027-21	EQB-6	Total/NA	Water	300.0	
400-126027-22	SGWC-23	Total/NA	Water	300.0	
400-126027-23	DUP-6	Total/NA	Water	300.0	
MB 400-320978/4	Method Blank	Total/NA	Water	300.0	
LCS 400-320978/5	Lab Control Sample	Total/NA	Water	300.0	
LCSD 400-320978/6	Lab Control Sample Dup	Total/NA	Water	300.0	
400-126027-10 MS	SGWC-12	Total/NA	Water	300.0	
400-126027-10 MSD	SGWC-12	Total/NA	Water	300.0	
400-126027-20 MS	FB-6	Total/NA	Water	300.0	

Analysis Batch: 321170

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-126027-11	SGWC-14	Total/NA	Water	300.0	
400-126027-15	SGWC-13	Total/NA	Water	300.0	

TestAmerica Pensacola

QC Association Summary

Client: Southern Company
Project/Site: CCR Plant Scherer

TestAmerica Job ID: 400-126027-1
SDG: Plant Scherer

HPLC/IC (Continued)

Analysis Batch: 321170 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-126027-17	SGWC-15	Total/NA	Water	300.0	
400-126027-18	SGWC-17	Total/NA	Water	300.0	
400-126027-19	SGWC-22	Total/NA	Water	300.0	
400-126027-22	SGWC-23	Total/NA	Water	300.0	
400-126027-23	DUP-6	Total/NA	Water	300.0	
MB 400-321170/10	Method Blank	Total/NA	Water	300.0	
LCS 400-321170/11	Lab Control Sample	Total/NA	Water	300.0	
LCS D 400-321170/12	Lab Control Sample Dup	Total/NA	Water	300.0	
400-126027-17 MS	SGWC-15	Total/NA	Water	300.0	
400-126207-A-1 MSD	Matrix Spike Duplicate	Total/NA	Water	300.0	

Metals

Prep Batch: 319410

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-126027-1	FB-4	Total Recoverable	Water	3005A	
400-126027-2	SGWA-25	Total Recoverable	Water	3005A	
400-126027-3	SGWC-7	Total Recoverable	Water	3005A	
400-126027-4	SGWC-11	Total Recoverable	Water	3005A	
400-126027-5	SGWC-6	Total Recoverable	Water	3005A	
400-126027-6	SGWC-10	Total Recoverable	Water	3005A	
400-126027-7	EQB-4	Total Recoverable	Water	3005A	
400-126027-8	SGWA-4	Total Recoverable	Water	3005A	
400-126027-9	SGWC-8	Total Recoverable	Water	3005A	
MB 400-319410/1-A ^5	Method Blank	Total Recoverable	Water	3005A	
LCS 400-319410/2-A ^1	Lab Control Sample	Total Recoverable	Water	3005A	
400-126003-D-1-B MS ^5	Matrix Spike	Total Recoverable	Water	3005A	
400-126003-D-1-C MSD ^5	Matrix Spike Duplicate	Total Recoverable	Water	3005A	

Prep Batch: 319530

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-126027-1	FB-4	Total/NA	Water	7470A	
400-126027-2	SGWA-25	Total/NA	Water	7470A	
400-126027-3	SGWC-7	Total/NA	Water	7470A	
400-126027-4	SGWC-11	Total/NA	Water	7470A	
400-126027-5	SGWC-6	Total/NA	Water	7470A	
400-126027-6	SGWC-10	Total/NA	Water	7470A	
400-126027-7	EQB-4	Total/NA	Water	7470A	
400-126027-8	SGWA-4	Total/NA	Water	7470A	
400-126027-9	SGWC-8	Total/NA	Water	7470A	
400-126027-10	SGWC-12	Total/NA	Water	7470A	
400-126027-11	SGWC-14	Total/NA	Water	7470A	
400-126027-12	SGWC-16	Total/NA	Water	7470A	
400-126027-13	EQB-5	Total/NA	Water	7470A	
400-126027-14	DUP-5	Total/NA	Water	7470A	
400-126027-15	SGWC-13	Total/NA	Water	7470A	
400-126027-16	FB-5	Total/NA	Water	7470A	
400-126027-17	SGWC-15	Total/NA	Water	7470A	
400-126027-18	SGWC-17	Total/NA	Water	7470A	
MB 400-319530/14-A	Method Blank	Total/NA	Water	7470A	

TestAmerica Pensacola

QC Association Summary

Client: Southern Company
Project/Site: CCR Plant Scherer

TestAmerica Job ID: 400-126027-1
SDG: Plant Scherer

Metals (Continued)

Prep Batch: 319530 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCS 400-319530/15-A	Lab Control Sample	Total/NA	Water	7470A	
400-126027-1 MS	FB-4	Total/NA	Water	7470A	
400-126027-1 MSD	FB-4	Total/NA	Water	7470A	

Analysis Batch: 319655

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-126027-1	FB-4	Total Recoverable	Water	6020	319410
400-126027-2	SGWA-25	Total Recoverable	Water	6020	319410
400-126027-3	SGWC-7	Total Recoverable	Water	6020	319410
400-126027-4	SGWC-11	Total Recoverable	Water	6020	319410
400-126027-5	SGWC-6	Total Recoverable	Water	6020	319410
400-126027-6	SGWC-10	Total Recoverable	Water	6020	319410
400-126027-7	EQB-4	Total Recoverable	Water	6020	319410
400-126027-8	SGWA-4	Total Recoverable	Water	6020	319410
400-126027-9	SGWC-8	Total Recoverable	Water	6020	319410
MB 400-319410/1-A ^5	Method Blank	Total Recoverable	Water	6020	319410
LCS 400-319410/2-A ^1	Lab Control Sample	Total Recoverable	Water	6020	319410
400-126003-D-1-B MS ^5	Matrix Spike	Total Recoverable	Water	6020	319410
400-126003-D-1-C MSD ^5	Matrix Spike Duplicate	Total Recoverable	Water	6020	319410

Prep Batch: 319849

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-126027-10	SGWC-12	Total Recoverable	Water	3005A	
400-126027-11	SGWC-14	Total Recoverable	Water	3005A	
400-126027-12	SGWC-16	Total Recoverable	Water	3005A	
400-126027-13	EQB-5	Total Recoverable	Water	3005A	
400-126027-14	DUP-5	Total Recoverable	Water	3005A	
400-126027-15	SGWC-13	Total Recoverable	Water	3005A	
400-126027-16	FB-5	Total Recoverable	Water	3005A	
400-126027-17	SGWC-15	Total Recoverable	Water	3005A	
400-126027-18	SGWC-17	Total Recoverable	Water	3005A	
400-126027-19	SGWC-22	Total Recoverable	Water	3005A	
400-126027-20	FB-6	Total Recoverable	Water	3005A	
400-126027-21	EQB-6	Total Recoverable	Water	3005A	
400-126027-22	SGWC-23	Total Recoverable	Water	3005A	
400-126027-23	DUP-6	Total Recoverable	Water	3005A	
MB 400-319849/1-A ^5	Method Blank	Total Recoverable	Water	3005A	
LCS 400-319849/2-A ^1	Lab Control Sample	Total Recoverable	Water	3005A	
400-126027-10 MS	SGWC-12	Total Recoverable	Water	3005A	
400-126027-10 MSD	SGWC-12	Total Recoverable	Water	3005A	

Prep Batch: 319899

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-126027-19	SGWC-22	Total/NA	Water	7470A	
400-126027-20	FB-6	Total/NA	Water	7470A	
400-126027-21	EQB-6	Total/NA	Water	7470A	
400-126027-22	SGWC-23	Total/NA	Water	7470A	
400-126027-23	DUP-6	Total/NA	Water	7470A	
MB 400-319899/14-A	Method Blank	Total/NA	Water	7470A	
LCS 400-319899/15-A	Lab Control Sample	Total/NA	Water	7470A	
400-126116-B-1-E MS	Matrix Spike	Total/NA	Water	7470A	

TestAmerica Pensacola

QC Association Summary

Client: Southern Company
Project/Site: CCR Plant Scherer

TestAmerica Job ID: 400-126027-1
SDG: Plant Scherer

Metals (Continued)

Prep Batch: 319899 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-126116-B-1-F MSD	Matrix Spike Duplicate	Total/NA	Water	7470A	

Analysis Batch: 320137

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-126027-1	FB-4	Total/NA	Water	7470A	319530
400-126027-2	SGWA-25	Total/NA	Water	7470A	319530
400-126027-3	SGWC-7	Total/NA	Water	7470A	319530
400-126027-4	SGWC-11	Total/NA	Water	7470A	319530
400-126027-5	SGWC-6	Total/NA	Water	7470A	319530
400-126027-6	SGWC-10	Total/NA	Water	7470A	319530
400-126027-7	EQB-4	Total/NA	Water	7470A	319530
400-126027-8	SGWA-4	Total/NA	Water	7470A	319530
400-126027-9	SGWC-8	Total/NA	Water	7470A	319530
400-126027-10	SGWC-12	Total/NA	Water	7470A	319530
400-126027-11	SGWC-14	Total/NA	Water	7470A	319530
400-126027-12	SGWC-16	Total/NA	Water	7470A	319530
400-126027-13	EQB-5	Total/NA	Water	7470A	319530
400-126027-14	DUP-5	Total/NA	Water	7470A	319530
400-126027-15	SGWC-13	Total/NA	Water	7470A	319530
400-126027-16	FB-5	Total/NA	Water	7470A	319530
400-126027-17	SGWC-15	Total/NA	Water	7470A	319530
400-126027-18	SGWC-17	Total/NA	Water	7470A	319530
400-126027-19	SGWC-22	Total/NA	Water	7470A	319899
400-126027-20	FB-6	Total/NA	Water	7470A	319899
400-126027-21	EQB-6	Total/NA	Water	7470A	319899
400-126027-22	SGWC-23	Total/NA	Water	7470A	319899
400-126027-23	DUP-6	Total/NA	Water	7470A	319899
MB 400-319530/14-A	Method Blank	Total/NA	Water	7470A	319530
MB 400-319899/14-A	Method Blank	Total/NA	Water	7470A	319899
LCS 400-319530/15-A	Lab Control Sample	Total/NA	Water	7470A	319530
LCS 400-319899/15-A	Lab Control Sample	Total/NA	Water	7470A	319899
400-126027-1 MS	FB-4	Total/NA	Water	7470A	319530
400-126027-1 MSD	FB-4	Total/NA	Water	7470A	319530
400-126116-B-1-E MS	Matrix Spike	Total/NA	Water	7470A	319899
400-126116-B-1-F MSD	Matrix Spike Duplicate	Total/NA	Water	7470A	319899

Analysis Batch: 320555

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-126027-10	SGWC-12	Total Recoverable	Water	6020	319849
400-126027-11	SGWC-14	Total Recoverable	Water	6020	319849
400-126027-12	SGWC-16	Total Recoverable	Water	6020	319849
400-126027-13	EQB-5	Total Recoverable	Water	6020	319849
400-126027-14	DUP-5	Total Recoverable	Water	6020	319849
400-126027-15	SGWC-13	Total Recoverable	Water	6020	319849
400-126027-16	FB-5	Total Recoverable	Water	6020	319849
400-126027-17	SGWC-15	Total Recoverable	Water	6020	319849
400-126027-18	SGWC-17	Total Recoverable	Water	6020	319849
400-126027-19	SGWC-22	Total Recoverable	Water	6020	319849
400-126027-20	FB-6	Total Recoverable	Water	6020	319849
400-126027-21	EQB-6	Total Recoverable	Water	6020	319849
400-126027-22	SGWC-23	Total Recoverable	Water	6020	319849

TestAmerica Pensacola

QC Association Summary

Client: Southern Company
Project/Site: CCR Plant Scherer

TestAmerica Job ID: 400-126027-1
SDG: Plant Scherer

Metals (Continued)

Analysis Batch: 320555 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-126027-23	DUP-6	Total Recoverable	Water	6020	319849
MB 400-319849/1-A ^5	Method Blank	Total Recoverable	Water	6020	319849
LCS 400-319849/2-A ^1	Lab Control Sample	Total Recoverable	Water	6020	319849
400-126027-10 MS	SGWC-12	Total Recoverable	Water	6020	319849
400-126027-10 MSD	SGWC-12	Total Recoverable	Water	6020	319849

General Chemistry

Analysis Batch: 319740

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-126027-1	FB-4	Total/NA	Water	SM 2540C	
400-126027-2	SGWA-25	Total/NA	Water	SM 2540C	
MB 400-319740/1	Method Blank	Total/NA	Water	SM 2540C	
LCS 400-319740/2	Lab Control Sample	Total/NA	Water	SM 2540C	
400-126016-B-3 DU	Duplicate	Total/NA	Water	SM 2540C	

Analysis Batch: 319749

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-126027-3	SGWC-7	Total/NA	Water	SM 2540C	
400-126027-4	SGWC-11	Total/NA	Water	SM 2540C	
400-126027-5	SGWC-6	Total/NA	Water	SM 2540C	
400-126027-6	SGWC-10	Total/NA	Water	SM 2540C	
400-126027-7	EQB-4	Total/NA	Water	SM 2540C	
400-126027-8	SGWA-4	Total/NA	Water	SM 2540C	
400-126027-9	SGWC-8	Total/NA	Water	SM 2540C	
MB 400-319749/1	Method Blank	Total/NA	Water	SM 2540C	
LCS 400-319749/2	Lab Control Sample	Total/NA	Water	SM 2540C	
400-126027-3 DU	SGWC-7	Total/NA	Water	SM 2540C	
400-126027-9 DU	SGWC-8	Total/NA	Water	SM 2540C	

Analysis Batch: 319993

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-126027-10	SGWC-12	Total/NA	Water	SM 2540C	
400-126027-11	SGWC-14	Total/NA	Water	SM 2540C	
400-126027-12	SGWC-16	Total/NA	Water	SM 2540C	
400-126027-13	EQB-5	Total/NA	Water	SM 2540C	
400-126027-14	DUP-5	Total/NA	Water	SM 2540C	
400-126027-15	SGWC-13	Total/NA	Water	SM 2540C	
400-126027-16	FB-5	Total/NA	Water	SM 2540C	
400-126027-17	SGWC-15	Total/NA	Water	SM 2540C	
400-126027-18	SGWC-17	Total/NA	Water	SM 2540C	
MB 400-319993/1	Method Blank	Total/NA	Water	SM 2540C	
LCS 400-319993/2	Lab Control Sample	Total/NA	Water	SM 2540C	
400-126027-10 DU	SGWC-12	Total/NA	Water	SM 2540C	

Analysis Batch: 320171

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-126027-19	SGWC-22	Total/NA	Water	SM 2540C	
400-126027-20	FB-6	Total/NA	Water	SM 2540C	
400-126027-21	EQB-6	Total/NA	Water	SM 2540C	

TestAmerica Pensacola

QC Association Summary

Client: Southern Company
Project/Site: CCR Plant Scherer

TestAmerica Job ID: 400-126027-1
SDG: Plant Scherer

General Chemistry (Continued)

Analysis Batch: 320171 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-126027-22	SGWC-23	Total/NA	Water	SM 2540C	
400-126027-23	DUP-6	Total/NA	Water	SM 2540C	
MB 400-320171/1	Method Blank	Total/NA	Water	SM 2540C	
LCS 400-320171/2	Lab Control Sample	Total/NA	Water	SM 2540C	
400-126007-A-38 DU	Duplicate	Total/NA	Water	SM 2540C	

- 1
- 2
- 3
- 4
- 5
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- 10
- 11
- 12
- 13
- 14

QC Sample Results

Client: Southern Company
Project/Site: CCR Plant Scherer

TestAmerica Job ID: 400-126027-1
SDG: Plant Scherer

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 400-320190/85
Matrix: Water
Analysis Batch: 320190

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<0.89		1.0	0.89	mg/L			08/24/16 23:53	1
Fluoride	<0.082		0.20	0.082	mg/L			08/24/16 23:53	1
Sulfate	<0.70		1.0	0.70	mg/L			08/24/16 23:53	1

Lab Sample ID: LCS 400-320190/86
Matrix: Water
Analysis Batch: 320190

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloride	10.0	9.82		mg/L		98	90 - 110
Fluoride	10.0	10.1		mg/L		101	90 - 110
Sulfate	10.0	9.47		mg/L		95	90 - 110

Lab Sample ID: LCSD 400-320190/87
Matrix: Water
Analysis Batch: 320190

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
Chloride	10.0	9.81		mg/L		98	90 - 110	0	15
Fluoride	10.0	10.1		mg/L		101	90 - 110	1	15
Sulfate	10.0	9.45		mg/L		95	90 - 110	0	15

Lab Sample ID: 400-126027-1 MS
Matrix: Water
Analysis Batch: 320190

Client Sample ID: FB-4
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloride	<0.89		10.0	10.4		mg/L		104	80 - 120
Fluoride	<0.082		10.0	10.8		mg/L		108	80 - 120
Sulfate	<0.70		10.0	10.2		mg/L		102	80 - 120

Lab Sample ID: 400-126027-1 MSD
Matrix: Water
Analysis Batch: 320190

Client Sample ID: FB-4
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Chloride	<0.89		10.0	10.4		mg/L		104	80 - 120	0	20
Fluoride	<0.082		10.0	10.9		mg/L		109	80 - 120	1	20
Sulfate	<0.70		10.0	10.1		mg/L		101	80 - 120	1	20

Lab Sample ID: MB 400-320276/4
Matrix: Water
Analysis Batch: 320276

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<0.89		1.0	0.89	mg/L			08/25/16 18:41	1
Fluoride	<0.082		0.20	0.082	mg/L			08/25/16 18:41	1
Sulfate	<0.70		1.0	0.70	mg/L			08/25/16 18:41	1

TestAmerica Pensacola

QC Sample Results

Client: Southern Company
Project/Site: CCR Plant Scherer

TestAmerica Job ID: 400-126027-1
SDG: Plant Scherer

Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: LCS 400-320276/5
Matrix: Water
Analysis Batch: 320276

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloride	10.0	9.71		mg/L		97	90 - 110
Fluoride	10.0	9.98		mg/L		100	90 - 110
Sulfate	10.0	9.24		mg/L		92	90 - 110

Lab Sample ID: LCSD 400-320276/6
Matrix: Water
Analysis Batch: 320276

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
Chloride	10.0	9.69		mg/L		97	90 - 110	0	15
Fluoride	10.0	10.2		mg/L		102	90 - 110	2	15
Sulfate	10.0	9.12		mg/L		91	90 - 110	1	15

Lab Sample ID: 400-126102-C-11 MS
Matrix: Water
Analysis Batch: 320276

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	47		10.0	56.6	E 4	mg/L		95	80 - 120
Fluoride	0.19	J	10.0	11.0		mg/L		108	80 - 120
Sulfate	<0.70		10.0	10.9		mg/L		109	80 - 120

Lab Sample ID: 400-126102-C-11 MSD
Matrix: Water
Analysis Batch: 320276

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	47		10.0	56.8	E 4	mg/L		96	80 - 120	0	20
Fluoride	0.19	J	10.0	10.9		mg/L		107	80 - 120	1	20
Sulfate	<0.70		10.0	10.8		mg/L		108	80 - 120	2	20

Lab Sample ID: MB 400-320978/4
Matrix: Water
Analysis Batch: 320978

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<0.89		1.0	0.89	mg/L			08/31/16 15:28	1
Fluoride	<0.082		0.20	0.082	mg/L			08/31/16 15:28	1
Sulfate	<0.70		1.0	0.70	mg/L			08/31/16 15:28	1

Lab Sample ID: LCS 400-320978/5
Matrix: Water
Analysis Batch: 320978

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloride	10.0	9.80		mg/L		98	90 - 110
Fluoride	10.0	9.72		mg/L		97	90 - 110
Sulfate	10.0	10.3		mg/L		103	90 - 110

TestAmerica Pensacola

QC Sample Results

Client: Southern Company
Project/Site: CCR Plant Scherer

TestAmerica Job ID: 400-126027-1
SDG: Plant Scherer

Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: LCSD 400-320978/6
Matrix: Water
Analysis Batch: 320978

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
Chloride	10.0	9.83		mg/L		98	90 - 110	0	15
Fluoride	10.0	10.3		mg/L		103	90 - 110	6	15
Sulfate	10.0	9.95		mg/L		100	90 - 110	4	15

Lab Sample ID: 400-126027-10 MS
Matrix: Water
Analysis Batch: 320978

Client Sample ID: SGWC-12
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Chloride	9.3		10.0	19.8		mg/L		105	80 - 120		
Fluoride	0.12	J	10.0	10.8		mg/L		107	80 - 120		
Sulfate	24		10.0	35.3		mg/L		109	80 - 120		

Lab Sample ID: 400-126027-10 MSD
Matrix: Water
Analysis Batch: 320978

Client Sample ID: SGWC-12
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Chloride	9.3		10.0	19.8		mg/L		105	80 - 120	0	20
Fluoride	0.12	J	10.0	11.3		mg/L		112	80 - 120	5	20
Sulfate	24		10.0	35.1		mg/L		106	80 - 120	1	20

Lab Sample ID: 400-126027-20 MS
Matrix: Water
Analysis Batch: 320978

Client Sample ID: FB-6
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Chloride	<0.89		10.0	10.6		mg/L		106	80 - 120		
Fluoride	<0.082		10.0	11.1		mg/L		111	80 - 120		
Sulfate	<0.70		10.0	10.9		mg/L		109	80 - 120		

Lab Sample ID: MB 400-321170/10
Matrix: Water
Analysis Batch: 321170

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<0.89		1.0	0.89	mg/L			09/01/16 16:58	1
Fluoride	<0.082		0.20	0.082	mg/L			09/01/16 16:58	1
Sulfate	<0.70		1.0	0.70	mg/L			09/01/16 16:58	1

Lab Sample ID: LCS 400-321170/11
Matrix: Water
Analysis Batch: 321170

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Chloride	10.0	9.75		mg/L		97	90 - 110		
Fluoride	10.0	10.3		mg/L		103	90 - 110		
Sulfate	10.0	9.90		mg/L		99	90 - 110		

TestAmerica Pensacola

QC Sample Results

Client: Southern Company
Project/Site: CCR Plant Scherer

TestAmerica Job ID: 400-126027-1
SDG: Plant Scherer

Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: LCSD 400-321170/12
Matrix: Water
Analysis Batch: 321170

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
Chloride	10.0	9.74		mg/L		97	90 - 110	0	15
Fluoride	10.0	10.3		mg/L		103	90 - 110	0	15
Sulfate	10.0	10.2		mg/L		102	90 - 110	3	15

Lab Sample ID: 400-126027-17 MS
Matrix: Water
Analysis Batch: 321170

Client Sample ID: SGWC-15
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Chloride	10		50.0	63.9		mg/L		107	80 - 120		
Fluoride	<0.41		50.0	57.0		mg/L		114	80 - 120		
Sulfate	190		50.0	243		mg/L		98	80 - 120		

Lab Sample ID: 400-126207-A-1 MSD
Matrix: Water
Analysis Batch: 321170

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	8.3		50.0	59.9		mg/L		103	80 - 120	0	20
Fluoride	<0.41		50.0	55.0		mg/L		110	80 - 120	1	20
Sulfate	78		50.0	130		mg/L		103	80 - 120	1	20

Method: 6020 - Metals (ICP/MS)

Lab Sample ID: MB 400-319410/1-A ^5
Matrix: Water
Analysis Batch: 319655

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 319410

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0010		0.0025	0.0010	mg/L		08/20/16 13:29	08/22/16 15:37	5
Arsenic	<0.00046		0.0013	0.00046	mg/L		08/20/16 13:29	08/22/16 15:37	5
Barium	<0.00049		0.0025	0.00049	mg/L		08/20/16 13:29	08/22/16 15:37	5
Beryllium	<0.00034		0.0025	0.00034	mg/L		08/20/16 13:29	08/22/16 15:37	5
Boron	<0.021		0.050	0.021	mg/L		08/20/16 13:29	08/22/16 15:37	5
Cadmium	<0.00034		0.0025	0.00034	mg/L		08/20/16 13:29	08/22/16 15:37	5
Calcium	<0.13		0.25	0.13	mg/L		08/20/16 13:29	08/22/16 15:37	5
Chromium	<0.0011		0.0025	0.0011	mg/L		08/20/16 13:29	08/22/16 15:37	5
Cobalt	<0.00040		0.0025	0.00040	mg/L		08/20/16 13:29	08/22/16 15:37	5
Lead	<0.00035		0.0013	0.00035	mg/L		08/20/16 13:29	08/22/16 15:37	5
Lithium	<0.0032		0.0050	0.0032	mg/L		08/20/16 13:29	08/22/16 15:37	5
Molybdenum	<0.00085		0.015	0.00085	mg/L		08/20/16 13:29	08/22/16 15:37	5
Selenium	<0.00024		0.0013	0.00024	mg/L		08/20/16 13:29	08/22/16 15:37	5
Thallium	<0.000085		0.00050	0.000085	mg/L		08/20/16 13:29	08/22/16 15:37	5

TestAmerica Pensacola

QC Sample Results

Client: Southern Company
Project/Site: CCR Plant Scherer

TestAmerica Job ID: 400-126027-1
SDG: Plant Scherer

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

Lab Sample ID: LCS 400-319410/2-A ^1
Matrix: Water
Analysis Batch: 319655

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 319410

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	Limits
Antimony	0.0500	0.0538		mg/L		108	80 - 120
Arsenic	0.0500	0.0553		mg/L		111	80 - 120
Barium	0.0500	0.0455		mg/L		91	80 - 120
Beryllium	0.0500	0.0498		mg/L		100	80 - 120
Boron	0.100	0.101		mg/L		101	80 - 120
Cadmium	0.0500	0.0532		mg/L		106	80 - 120
Calcium	5.00	4.80		mg/L		96	80 - 120
Chromium	0.0500	0.0518		mg/L		104	80 - 120
Cobalt	0.0500	0.0506		mg/L		101	80 - 120
Lead	0.0500	0.0513		mg/L		103	80 - 120
Lithium	0.0500	0.0533		mg/L		107	80 - 120
Molybdenum	0.0500	0.0529		mg/L		106	80 - 120
Selenium	0.0500	0.0524		mg/L		105	80 - 120
Thallium	0.0100	0.0105		mg/L		105	80 - 120

Lab Sample ID: 400-126003-D-1-B MS ^5
Matrix: Water
Analysis Batch: 319655

Client Sample ID: Matrix Spike
Prep Type: Total Recoverable
Prep Batch: 319410

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	Limits
Antimony	<0.0010		0.0500	0.0575		mg/L		115	75 - 125
Arsenic	0.0011	J	0.0500	0.0599		mg/L		118	75 - 125
Barium	0.076		0.0500	0.121		mg/L		91	75 - 125
Beryllium	<0.00034		0.0500	0.0532		mg/L		106	75 - 125
Boron	0.071		0.100	0.189		mg/L		119	75 - 125
Cadmium	<0.00034		0.0500	0.0552		mg/L		110	75 - 125
Calcium	3.0		5.00	7.62		mg/L		92	75 - 125
Chromium	<0.0011		0.0500	0.0527		mg/L		105	75 - 125
Cobalt	0.015		0.0500	0.0662		mg/L		102	75 - 125
Lead	0.00091	J	0.0500	0.0540		mg/L		106	75 - 125
Lithium	<0.0032		0.0500	0.0525		mg/L		105	75 - 125
Molybdenum	<0.00085		0.0500	0.0541		mg/L		108	75 - 125
Selenium	0.00027	J	0.0500	0.0542		mg/L		108	75 - 125
Thallium	<0.000085		0.0100	0.0108		mg/L		108	75 - 125

Lab Sample ID: 400-126003-D-1-C MSD ^5
Matrix: Water
Analysis Batch: 319655

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total Recoverable
Prep Batch: 319410

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Antimony	<0.0010		0.0500	0.0564		mg/L		113	75 - 125	2	20
Arsenic	0.0011	J	0.0500	0.0589		mg/L		116	75 - 125	2	20
Barium	0.076		0.0500	0.121		mg/L		91	75 - 125	0	20
Beryllium	<0.00034		0.0500	0.0528		mg/L		106	75 - 125	1	20
Boron	0.071		0.100	0.185		mg/L		114	75 - 125	2	20
Cadmium	<0.00034		0.0500	0.0571		mg/L		114	75 - 125	3	20
Calcium	3.0		5.00	7.75		mg/L		95	75 - 125	2	20
Chromium	<0.0011		0.0500	0.0530		mg/L		106	75 - 125	0	20

TestAmerica Pensacola

QC Sample Results

Client: Southern Company
Project/Site: CCR Plant Scherer

TestAmerica Job ID: 400-126027-1
SDG: Plant Scherer

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

Lab Sample ID: 400-126003-D-1-C MSD ^5
Matrix: Water
Analysis Batch: 319655

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total Recoverable
Prep Batch: 319410

Analyte	Sample	Sample	Spike	MSD	MSD	Unit	D	%Rec	%Rec.	RPD	Limit
	Result	Qualifier	Added	Result	Qualifier				Limits		
Cobalt	0.015		0.0500	0.0672		mg/L		104	75 - 125	2	20
Lead	0.00091	J	0.0500	0.0540		mg/L		106	75 - 125	0	20
Lithium	<0.0032		0.0500	0.0528		mg/L		106	75 - 125	1	20
Molybdenum	<0.00085		0.0500	0.0544		mg/L		109	75 - 125	1	20
Selenium	0.00027	J	0.0500	0.0542		mg/L		108	75 - 125	0	20
Thallium	<0.000085		0.0100	0.0108		mg/L		108	75 - 125	0	20

Lab Sample ID: MB 400-319849/1-A ^5
Matrix: Water
Analysis Batch: 320555

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 319849

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Antimony	<0.0010		0.0025	0.0010	mg/L		08/24/16 07:44	08/24/16 15:08	5
Arsenic	<0.00046		0.0013	0.00046	mg/L		08/24/16 07:44	08/24/16 15:08	5
Barium	<0.00049		0.0025	0.00049	mg/L		08/24/16 07:44	08/24/16 15:08	5
Beryllium	<0.00034		0.0025	0.00034	mg/L		08/24/16 07:44	08/24/16 15:08	5
Boron	<0.021		0.050	0.021	mg/L		08/24/16 07:44	08/24/16 15:08	5
Cadmium	<0.00034		0.0025	0.00034	mg/L		08/24/16 07:44	08/24/16 15:08	5
Calcium	<0.13		0.25	0.13	mg/L		08/24/16 07:44	08/24/16 15:08	5
Chromium	<0.0011		0.0025	0.0011	mg/L		08/24/16 07:44	08/24/16 15:08	5
Cobalt	<0.00040		0.0025	0.00040	mg/L		08/24/16 07:44	08/24/16 15:08	5
Lead	<0.00035		0.0013	0.00035	mg/L		08/24/16 07:44	08/24/16 15:08	5
Lithium	<0.0032		0.0050	0.0032	mg/L		08/24/16 07:44	08/24/16 15:08	5
Molybdenum	<0.00085		0.015	0.00085	mg/L		08/24/16 07:44	08/24/16 15:08	5
Selenium	<0.00024		0.0013	0.00024	mg/L		08/24/16 07:44	08/24/16 15:08	5
Thallium	<0.000085		0.00050	0.000085	mg/L		08/24/16 07:44	08/24/16 15:08	5

Lab Sample ID: LCS 400-319849/2-A ^1
Matrix: Water
Analysis Batch: 320555

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 319849

Analyte	Spike Added	LCS	LCS	Unit	D	%Rec	%Rec.
		Result	Qualifier				Limits
Antimony	0.0500	0.0554		mg/L		111	80 - 120
Arsenic	0.0500	0.0564		mg/L		113	80 - 120
Barium	0.0500	0.0484		mg/L		97	80 - 120
Beryllium	0.0500	0.0527		mg/L		105	80 - 120
Boron	0.100	0.0989		mg/L		99	80 - 120
Cadmium	0.0500	0.0515		mg/L		103	80 - 120
Calcium	5.00	4.90		mg/L		98	80 - 120
Chromium	0.0500	0.0506		mg/L		101	80 - 120
Cobalt	0.0500	0.0485		mg/L		97	80 - 120
Lead	0.0500	0.0495		mg/L		99	80 - 120
Lithium	0.0500	0.0517		mg/L		103	80 - 120
Molybdenum	0.0500	0.0495		mg/L		99	80 - 120
Selenium	0.0500	0.0508		mg/L		102	80 - 120
Thallium	0.0100	0.00952		mg/L		95	80 - 120

TestAmerica Pensacola

QC Sample Results

Client: Southern Company
Project/Site: CCR Plant Scherer

TestAmerica Job ID: 400-126027-1
SDG: Plant Scherer

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

Lab Sample ID: 400-126027-10 MS
Matrix: Water
Analysis Batch: 320555

Client Sample ID: SGWC-12
Prep Type: Total Recoverable
Prep Batch: 319849

Analyte	Sample	Sample Qualifier	Spike Added	MS		Unit	D	%Rec	%Rec.	
	Result			Result	Qualifier				Limits	Limits
Antimony	<0.0010		0.0500	0.0583		mg/L		117	75 - 125	
Arsenic	0.00091	J	0.0500	0.0578		mg/L		114	75 - 125	
Barium	0.030		0.0500	0.0781		mg/L		96	75 - 125	
Beryllium	<0.00034		0.0500	0.0516		mg/L		103	75 - 125	
Boron	<0.021		0.100	0.109		mg/L		109	75 - 125	
Cadmium	<0.00034		0.0500	0.0516		mg/L		103	75 - 125	
Calcium	20		5.00	25.2	4	mg/L		97	75 - 125	
Chromium	<0.0011		0.0500	0.0503		mg/L		101	75 - 125	
Cobalt	0.0035		0.0500	0.0519		mg/L		97	75 - 125	
Lead	<0.00035		0.0500	0.0495		mg/L		99	75 - 125	
Lithium	<0.0032		0.0500	0.0491		mg/L		98	75 - 125	
Molybdenum	0.0011	J	0.0500	0.0519		mg/L		102	75 - 125	
Selenium	0.00031	J	0.0500	0.0506		mg/L		101	75 - 125	
Thallium	<0.000085		0.0100	0.00936		mg/L		94	75 - 125	

Lab Sample ID: 400-126027-10 MSD
Matrix: Water
Analysis Batch: 320555

Client Sample ID: SGWC-12
Prep Type: Total Recoverable
Prep Batch: 319849

Analyte	Sample	Sample Qualifier	Spike Added	MSD		Unit	D	%Rec	%Rec.		RPD	
	Result			Result	Qualifier				Limits	RPD	Limit	
Antimony	<0.0010		0.0500	0.0570		mg/L		114	75 - 125	2	20	
Arsenic	0.00091	J	0.0500	0.0580		mg/L		114	75 - 125	0	20	
Barium	0.030		0.0500	0.0772		mg/L		94	75 - 125	1	20	
Beryllium	<0.00034		0.0500	0.0523		mg/L		105	75 - 125	1	20	
Boron	<0.021		0.100	0.110		mg/L		110	75 - 125	0	20	
Cadmium	<0.00034		0.0500	0.0503		mg/L		101	75 - 125	3	20	
Calcium	20		5.00	25.6	4	mg/L		104	75 - 125	1	20	
Chromium	<0.0011		0.0500	0.0516		mg/L		103	75 - 125	3	20	
Cobalt	0.0035		0.0500	0.0523		mg/L		98	75 - 125	1	20	
Lead	<0.00035		0.0500	0.0504		mg/L		101	75 - 125	2	20	
Lithium	<0.0032		0.0500	0.0502		mg/L		100	75 - 125	2	20	
Molybdenum	0.0011	J	0.0500	0.0517		mg/L		101	75 - 125	0	20	
Selenium	0.00031	J	0.0500	0.0512		mg/L		102	75 - 125	1	20	
Thallium	<0.000085		0.0100	0.00982		mg/L		98	75 - 125	5	20	

Method: 7470A - Mercury (CVAA)

Lab Sample ID: MB 400-319530/14-A
Matrix: Water
Analysis Batch: 320137

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 319530

Analyte	MB		RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Mercury	<0.000070		0.00020	0.000070	mg/L		08/22/16 10:08	08/25/16 12:19	1

TestAmerica Pensacola

QC Sample Results

Client: Southern Company
Project/Site: CCR Plant Scherer

TestAmerica Job ID: 400-126027-1
SDG: Plant Scherer

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

Lab Sample ID: LCS 400-319530/15-A
Matrix: Water
Analysis Batch: 320137

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 319530

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	Limits
Mercury	0.00101	0.00103		mg/L		102	80 - 120

Lab Sample ID: 400-126027-1 MS
Matrix: Water
Analysis Batch: 320137

Client Sample ID: FB-4
Prep Type: Total/NA
Prep Batch: 319530

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	Limits
Mercury	<0.000070		0.00201	0.00192		mg/L		95	80 - 120

Lab Sample ID: 400-126027-1 MSD
Matrix: Water
Analysis Batch: 320137

Client Sample ID: FB-4
Prep Type: Total/NA
Prep Batch: 319530

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Mercury	<0.000070		0.00201	0.00206		mg/L		102	80 - 120	7	20

Lab Sample ID: MB 400-319899/14-A
Matrix: Water
Analysis Batch: 320137

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 319899

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.000070		0.00020	0.000070	mg/L		08/24/16 09:42	08/25/16 13:25	1

Lab Sample ID: LCS 400-319899/15-A
Matrix: Water
Analysis Batch: 320137

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 319899

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	Limits
Mercury	0.00101	0.000994		mg/L		99	80 - 120

Lab Sample ID: 400-126116-B-1-E MS
Matrix: Water
Analysis Batch: 320137

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 319899

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	Limits
Mercury	<0.000070		0.00201	0.00197		mg/L		98	80 - 120

Lab Sample ID: 400-126116-B-1-F MSD
Matrix: Water
Analysis Batch: 320137

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA
Prep Batch: 319899

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Mercury	<0.000070		0.00201	0.00197		mg/L		98	80 - 120	0	20

QC Sample Results

Client: Southern Company
Project/Site: CCR Plant Scherer

TestAmerica Job ID: 400-126027-1
SDG: Plant Scherer

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

Lab Sample ID: MB 400-319740/1
Matrix: Water
Analysis Batch: 319740

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	<3.4		5.0	3.4	mg/L			08/23/16 13:43	1

Lab Sample ID: LCS 400-319740/2
Matrix: Water
Analysis Batch: 319740

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	270		mg/L		92	78 - 122

Lab Sample ID: 400-126016-B-3 DU
Matrix: Water
Analysis Batch: 319740

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		118		mg/L		0	5

Lab Sample ID: MB 400-319749/1
Matrix: Water
Analysis Batch: 319749

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	<3.4		5.0	3.4	mg/L			08/23/16 14:29	1

Lab Sample ID: LCS 400-319749/2
Matrix: Water
Analysis Batch: 319749

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	290		mg/L		99	78 - 122

Lab Sample ID: 400-126027-3 DU
Matrix: Water
Analysis Batch: 319749

Client Sample ID: SGWC-7
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Total Dissolved Solids	220		220		mg/L		0	5

Lab Sample ID: 400-126027-9 DU
Matrix: Water
Analysis Batch: 319749

Client Sample ID: SGWC-8
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Total Dissolved Solids	410		410		mg/L		0	5

Lab Sample ID: MB 400-319993/1
Matrix: Water
Analysis Batch: 319993

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	<3.4		5.0	3.4	mg/L			08/24/16 17:30	1

TestAmerica Pensacola

QC Sample Results

Client: Southern Company
Project/Site: CCR Plant Scherer

TestAmerica Job ID: 400-126027-1
SDG: Plant Scherer

Lab Sample ID: LCS 400-319993/2
Matrix: Water
Analysis Batch: 319993

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	270		mg/L		92	78 - 122

Lab Sample ID: 400-126027-10 DU
Matrix: Water
Analysis Batch: 319993

Client Sample ID: SGWC-12
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Total Dissolved Solids	200		204		mg/L		0	5

Lab Sample ID: MB 400-320171/1
Matrix: Water
Analysis Batch: 320171

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	<3.4		5.0	3.4	mg/L			08/25/16 17:26	1

Lab Sample ID: LCS 400-320171/2
Matrix: Water
Analysis Batch: 320171

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	290		mg/L		99	78 - 122

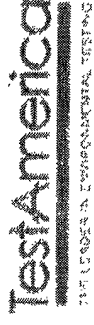
Lab Sample ID: 400-126007-A-38 DU
Matrix: Water
Analysis Batch: 320171


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		144		mg/L		0	5

TestAmerica Pensacola
3355 McLemore Drive
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Chain of Custody Record



Client Information Client Contact: Jolyn Abraham Company: Southern Company Address: 241 Ralph McGill Blvd SE B10185 City: Atlanta State, Zip: GA, 30308 Phone: 404-506-7239 Email: JAbraham@southemco.com Project Name: CCR - Scherer Site: Plant Scherer				Lab PVI: Whitmore, Cheyenne R E-Mail: cheyenne.whitmore@testamericainc.com Carrier Tracking No(s): Job #: 126027	
Due Date Requested: TAT Requested (days): Standard TAT		Analysis Requested  400-126027 COC			
Sample Date: 8/17/16 Sample Time: 09:08 Sample Type: G Matrix: Water Preservation Code:		Performance MS/MSD (Yes or No): <input type="checkbox"/> None <input type="checkbox"/> 1 <input type="checkbox"/> 2 <input type="checkbox"/> 3		Total Number of Containers: 3	
Sample Date: 8/17/16 Sample Time: 09:46 Sample Type: G Matrix: Water Preservation Code:		Metals Appendix III & IV - EPA 6020 & EPA 7470 1 1 1		5	
Sample Date: 8/17/16 Sample Time: 11:25 Sample Type: G Matrix: Water Preservation Code:		TDS - SM 2540C; Cl, F, SO4 - EPA 300 1 1 1		3	
Sample Date: 8/17/16 Sample Time: 14:45 Sample Type: G Matrix: Water Preservation Code:		Radium 226 & 228 - SW-946 9316 & 9320 1 1 1		Special Instructions/Note: 	
Possible Hazard Identification <input checked="" type="checkbox"/> Non-Hazard <input type="checkbox"/> Flammable <input type="checkbox"/> Skin Irritant <input type="checkbox"/> Poison B <input type="checkbox"/> Unknown <input type="checkbox"/> Radiological					
Deliverable Requested: I, III, IV, Other (specify) _____ <input type="checkbox"/> Return To Client <input checked="" type="checkbox"/> Disposal By Lab <input type="checkbox"/> Archive For _____ Months Special Instructions/QC Requirements: _____					
Empty Kit Relinquished by: Relinquished by: <i>[Signature]</i> Relinquished by: _____ Relinquished by: _____		Time: _____ Date: _____ Method of Shipment: _____ Received by: _____ Date/Time: 8/17/16 17:30 Relinquished by: _____ Date/Time: _____ Relinquished by: _____ Date/Time: _____			
Custody Seals Intact: <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No		Company: Bechtel Date/Time: 8/17/16 17:30 Company: Bechtel Date/Time: _____ Company: _____ Date/Time: _____ Other Remarks: 1172 file 0102 016 1882 file			



TestAmerica Pensacola
 3355 McLeomore Drive
 Pensacola, FL 32514
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Chain of Custody Record



Client Information		Sampler: <i>Miranda Steffler</i>		Lab P#:		Whitmore, Cheyenne R.		COC No:		400-57303-24790.7			
Client Contact: JoLu Abraham		Phone: <i>(239) 338-8022</i>		E-Mail: cheyenne.whitmore@testamericainc.com				Page:					
Southern Company								Job #:		<i>12607</i>			
Due Date Requested:				Analysis Requested									
TAT Requested (days):		<i>Standard TAT</i>		Metals Appendix III & IV - EPA 6020 & EPA 7470									
PO #:		GPC10624814		TDS - SM 2540C : Cl ⁻ , SO ₄ - EPA 300									
Email:		JAbraham@southernco.com		Radium 226 & 228 - SW-846 9315 & 9320									
Project Name:		CCR - Scherer		Field Filtered Sample (Yes or No)									
Site:		<i>Plant Scherer</i>		Particulate MS/MSD (Yes or No)									
Sample Identification			Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=Water, S=solid, O=wastewater, BT=Tissue, A=Air)	Preservation Code	Field Filtered Sample (Yes or No)	Metals Appendix III & IV - EPA 6020 & EPA 7470	TDS - SM 2540C : Cl ⁻ , SO ₄ - EPA 300	Radium 226 & 228 - SW-846 9315 & 9320	Total Number of Containers	Special Instructions/Note:
<i>SGWC-6</i>			<i>8-17-16</i>	<i>1140</i>	<i>G</i>	<i>Water</i>		<input checked="" type="checkbox"/>	<i>111</i>	<i>111</i>	<i>111</i>	<i>3</i>	
<i>SGWC-10</i>			<i>8-17-16</i>	<i>1415</i>	<i>G</i>	<i>Water</i>		<input checked="" type="checkbox"/>	<i>111</i>	<i>111</i>	<i>111</i>	<i>3</i>	
<i>EQB-4</i>			<i>8-17-16</i>	<i>1545</i>	<i>G</i>	<i>Water</i>		<input checked="" type="checkbox"/>	<i>111</i>	<i>111</i>	<i>111</i>	<i>3</i>	
						<i>Water</i>							
						<i>Water</i>							
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						<i>Water</i>							
						<i>Water</i>							
						<i>Water</i>							
						<i>Water</i>							
Possible Hazard Identification		<input checked="" type="checkbox"/> Non-Hazard <input type="checkbox"/> Flammable <input type="checkbox"/> Skin Irritant <input type="checkbox"/> Poison B <input type="checkbox"/> Unknown <input type="checkbox"/> Radiological		Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)		<input type="checkbox"/> Return To Client <input checked="" type="checkbox"/> Disposal By Lab <input type="checkbox"/> Archive For _____ Months							
Relinquished by:		<i>JLu Abraham</i>		Received by:		<i>Bradford</i>							
Relinquished by:		<i>JLu Abraham</i>		Date/Time:		<i>8-17-16 1730</i>							
Relinquished by:				Date/Time:		<i>8-17-16 1810</i>							
Relinquished by:				Date/Time:									
Custody Seal Intact:		<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		Custody Seal No.:									

TestAmerica Pensacola
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Chain of Custody Record

TestAmerica
 THE LEADER IN ENVIRONMENTAL TESTING

Client Information Client Contact: Joju Abraham Company: Southern Company Address: 241 Ralph McGill Blvd SE B10185 City: Atlanta State, Zip: GA, 30308 Phone: 404-506-7239 Email: JAbraham@southernco.com Project #: 40007041 CCR - Scherer Site: <i>Plant Scherer</i>		Lab P/W: Whitmire, Cheyenne R E-Mail: cheyenne.whitmire@testamericainc.com		Carrier Tracking No(s): COC No: 400-57303-24790.7 Page:		Job #: <i>126027</i> Preservation Codes: M - Hexane N - None O - AsNaO2 P - Na2O4S Q - Na2SO3 R - Na2SO3 S - H2SO4 T - TSP Dodecahydrate U - Acetone V - MCAA W - ph 4-5 X - EDTA Y - EDA Z - other (specify)	
Due Date Requested: TAT Requested (days): <i>Standard TAT</i>		Analysis Requested Metals Appendix III & IV - EPA 6020 & EPA 7470 Radium 226 & 228 - SW-846 9316 & 9320 TDS - SM 2540C ; Cl,F,SO4 - EPA 300 Pathom MS/MSD (Yes or No)		Total Number of Containers 3 3		Special Instructions/Note:	
Sample Identification	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=wastebill, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Preservation Code	Special Instructions/Note
SGWA-4	8/17/16	1049	G	Water		D	
SGWC-8	8/17/16	1414	G	Water		D	
				Water			
				Water			
				Water			
				Water			
				Water			
				Water			
				Water			
				Water			
				Water			
				Water			
				Water			
Possible Hazard Identification <input checked="" type="checkbox"/> Non-Hazard <input type="checkbox"/> Flammable <input type="checkbox"/> Skin Irritant <input type="checkbox"/> Poison B <input type="checkbox"/> Unknown <input type="checkbox"/> Radiological				Sample Disposal (A fee may be assessed if samples are retained longer than 1 month) <input type="checkbox"/> Return To Client <input checked="" type="checkbox"/> Disposal By Lab <input type="checkbox"/> Archive For _____ Months			
Relinquished by: <i>[Signature]</i> Relinquished by: _____ Relinquished by: _____		Date: 8/17/16 1730 Date/Time: 8/17/16 1730 Date/Time: _____ Date/Time: _____		Received by: UPS 12A178192210375795 Received by: <i>[Signature]</i> Received by: _____ Received by: _____		Date/Time: _____ Date/Time: 8/18/16 1007 Date/Time: _____ Date/Time: _____	
Relinquished by: _____ Relinquished by: _____ Relinquished by: _____		Date: _____ Date: _____ Date: _____		Method of Shipment: _____ Method of Shipment: _____ Method of Shipment: _____		Company: AECOM Company: _____ Company: _____ Company: TAPER	
Custody Seal Intact: <input type="checkbox"/> Yes <input type="checkbox"/> No Custody Seal No.: _____		Cooler Temperature(s) °C and Other Remarks: <i>1.90°C, 0.00°C, 1.8°C, 1.8°C</i>					



Chain of Custody Record

Client Information		Sample Information		Lab PVI:		Carrier Tracking No(s):		COC No:				
Client Contact: Joju Abraham Southern Company		Kous Hilliard 770-315-9696		Whitnire, Cheyenne R E-Mail: cheyenne.whitnire@testamericainc.com				400-57303-24790.8				
Address: 241 Ralph McGill Blvd SE B10185 Atlanta State, Zip: GA, 30308 Phone: 404-506-7239 Email: JAbraham@southernco.com Project Name: CCR - Scherer Site: Plant Scherer		Due Date Requested: TAT Requested (days): Standard JAT		PO #: GPC-10624814 WO #:		Metals Appendix III & IV - EPA 6020 & EPA 7470 TDS - SM 2640C : Cl, F, SO4 - EPA 300 Radium 226 & 228 - SW-846 9315 & 9320		Job #:				
Sample Identification	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=wastewater, BT=BISSUE, A=Air)	Field Filtered Sample (Yes or No)	Performance MSMSD (Yes or No)	TDS - SM 2640C : Cl, F, SO4 - EPA 300	Metals Appendix III & IV - EPA 6020 & EPA 7470	Radium 226 & 228 - SW-846 9315 & 9320	Analysis Requested	Carrier Tracking No(s):	COC No:
56WC-12	8/18/16	09:01	G	Water	X	X	1	1	1			
56WC-14	8/18/16	11:01	G	Water	X	X	1	1	1			
56WC-16	8/18/16	13:42	G	Water	X	X	1	1	1			
EQB-5	8/18/16	14:47	G	Water	X	X	1	1	1			
DUP-5	8/18/16	-	G	Water	X	X	1	1	1			
				Water								
				Water								
				Water								
				Water								
				Water								
				Water								
<p>Possible Hazard Identification <input checked="" type="checkbox"/> Non-Hazard <input type="checkbox"/> Flammable <input type="checkbox"/> Skin Irritant <input type="checkbox"/> Poison B <input type="checkbox"/> Unknown <input type="checkbox"/> Radiological</p> <p>Deliverable Requested: I, II, III, IV, Other (specify)</p> <p>Empty Kit Relinquished by: _____ Date: _____</p> <p>Relinquished by: <i>LOHOLL</i> Date: 8/18/16 18:00 Company: AECO Company</p> <p>Relinquished by: _____ Date: _____ Company: _____</p> <p>Relinquished by: _____ Date: _____ Company: _____</p> <p>Custody Seals Intact: _____ Custody Seal No.: _____ <input type="checkbox"/> Yes <input type="checkbox"/> No</p>												
<p>Special Instructions/Note: _____</p> <p>Special Instructions/QC Requirements: _____</p> <p>Sample Disposal (A fee may be assessed if samples are retained longer than 1 month) <input type="checkbox"/> Return To Client <input checked="" type="checkbox"/> Disposal By Lab <input type="checkbox"/> Archive For _____ Months</p> <p>Method of Shipment: _____</p> <p>Relinquished by: _____ Date: 8/19/16 1015 Company: TA Coolup Temperature(s) °C and Other Remarks: 1.2°C 3.1°C 0.1°C</p>												

Chain of Custody Record

Client Information	Sampler: Charles Watson	Lab PM: Whitmire, Cheyenne R	Carrier Tracking No(s):
Client Contact: Joju Abraham	Phone: 404 273 7689	E-Mail: cheyenne.whitmire@testamericainc.com	COC No: 400-57303-24790.8
Company: Southern Company	Due Date Requested:	Analysis Requested	Page:
Address: 241 Ralph McGill Blvd SE B10185	TAT Requested (days): Standard TAT		Job #:
City: Atlanta	PO #: GPC10624814		
State, Zip: GA, 30308	WO #:		
Phone: 404-506-7239	Project #: 40007041		
Email: JAbraham@southernco.com	SSOW#:		
Project Name: CCR - Scherer			
Site: Plant Scherer			

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water, S=solid, O=wastewat, BT=TISSUE, A=Air)	Preservation Code	Field Filtered Sample (Yes or No)				Total Number of Containers	Special Instructions/Note:	
						I	D	D	D			
SGWC-13	8/18/16	0845	G	Water								
FB-5	8/18/16	0915	G	Water								
SGWC-15	8/18/16	1120	G	Water								
SGWC-17	8/18/16	1347	G	Water								

Field Filtered Sample (Yes or No): I: TFS - SM 2540C; Cl, F, S04 - EPA 300; D: Metals Appendix III & IV - EPA 6020 & EPA 7470; D: Radium 226 & 228 - SW-846 9315 & 9320

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
 Other: _____

Preservation Codes:
 M - Hexane
 N - None
 O - AsNaO2
 P - Na2O4S
 Q - Na2SO3
 R - Na2SO3
 S - H2SO4
 T - TSP Dodecahydrate
 U - Acetone
 V - MCAA
 W - ph 4-5
 Z - other (specify)

Special Instructions/Note:

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

Special Instructions/QC Requirements:

Empty Kit Relinquished by: _____ Date: _____

Relinquished by: *Chen* Date: 8/18/16 1800

Relinquished by: _____ Date: _____

Relinquished by: _____ Date: _____

Custody Seals Intact **Custody Seal No.:** _____
 Yes No

Deliverable Requested: Non-Hazard Flammable Skin Irritant Poison B Unknown Radiological

Method of Shipment: _____

Received by: UPS 12X178X9221037 Date/Time: 5/7/7

Received by: _____ Date/Time: _____


Received by: _____ Date/Time: 8/19/16 1015

Cooler Temperature(s) °C and Other Remarks: 1.2°C 3.1°C 0.1°C

TestAmerica Pensacola
 3355 McLemore Drive
 Pensacola, FL 32514
 Phone (850) 474-1001 Fax (850) 478-2671

Chain of Custody Record

TestAmerica
 THE LEADER IN ENVIRONMENTAL TESTING

Client Information Client Contact: Joju Abraham Southern Company Address: 241 Ralph McGill Blvd SE B10185 City: Atlanta State, Zip: GA, 30308 Phone: 404-506-7239 Email: JAbraham@southernco.com Project Name: CCR - Scherer Site: Plant Scherer		Lab P.M.: Whitmore, Cheyenne R E-Mail: cheyenne.whitmore@testamericainc.com Center Tracking No(s): Pedex 65468385990 654683859003		COC No: 400-57303-24790.9 Page: Job #:					
Due Date Requested: TAT Requested (days): Standard TAT PO #: GPC10624814 WO #: Project #: 40007041 SSOV#:		Analysis Requested TDS - SM 2540C : Cl,F,S04 - EPA 300 Metals Appendix III & IV - EPA 6020 & EPA 7470 Radium 226 & 228 - SW-846 9315 & 9320 Total Number of Containers: 3							
Sample Identification SGWC-22 FB-6 EQB-6		Sample Date 8/19/16 8/19/16 8/19/16	Sample Time 0833 0853 0945	Sample Type (C=Comp, G=grab) G G G	Matrix (W=water, S=solid, O=waste/oil, B=tissue, A=air) Water Water Water Water Water Water Water Water Water Water	Preservation Code I I I	Field Filtered Sample (Yes or No) X X X	Perform MS/MSD (Yes or No) X X X	Special Instructions/Note:  400-126027 COC
Possible Hazard Identification <input checked="" type="checkbox"/> Non-Hazard <input type="checkbox"/> Flammable <input type="checkbox"/> Skin Irritant <input type="checkbox"/> Poison B <input type="checkbox"/> Unknown <input type="checkbox"/> Radiological Deliverable Requested: I, II, III, IV, Other (specify)									
Empty Kit Relinquished by:									
Relinquished by: <i>[Signature]</i> Date/Time: 8/19/16 14:40 Company: AECOM		Relinquished by: <i>[Signature]</i> Date/Time: 8/20/16 0856 Company:							
Relinquished by: Date/Time: Company:		Relinquished by: Date/Time: Company:							
Custody Seals Intact: <input type="checkbox"/> Yes <input type="checkbox"/> No		Custody Seal No.: <i>[Signature]</i> Cooler Temperature(s) °C and Other Remarks:							
Sample Disposal (A fee may be assessed if samples are retained longer than 1 month) <input type="checkbox"/> Return To Client <input checked="" type="checkbox"/> Disposal By Lab <input type="checkbox"/> Archive For _____ Months Special Instructions/QC Requirements:									

TestAmerica Pensacola
 3355 McLemore Drive
 Pensacola, FL 32514
 Phone (850) 474-1001 Fax (850) 478-2671

Chain of Custody Record

TestAmerica
 THE LEADER IN ENVIRONMENTAL TESTING

Client Information Client Contact: Joju Abraham Company: Southern Company Address: 241 Ralph McGill Blvd SE B10185 City: Atlanta State/Zip: GA, 30308 Phone: 404-506-7238 Email: JAbraham@southernco.com Project Name: CCR - Scherer Site: Plant Scherer		Lab Pmt: Whitmore, Chyenne R E-Mail: chyenne.whitmore@testamericainc.com		Carrier Tracking No(s): COC No: 400-57303-24790.9 Page: Job #: Analysis Requested:		Preservation Codes: A - HCL B - NaOH C - Zn Acetate D - Nitric Acid E - NaHSO4 F - MeOH G - Anchlor H - Ascorbic Acid I - Ice J - DI Water K - EDTA L - EDA Other: M - Hexane N - None O - AsNaO2 P - Na2O4S Q - Na2SO3 R - Na2S2O3 S - H2SO4 T - TSP Dodecathylate U - Acetone V - MCAA W - ph 4-5 Z - other (specify)		Special Instructions/Note: Total Number of Containers:	
Due Date Requested: TAT Requested (days): Standards TAT PO #: GPC10624814 WO #: Project #: 40007041 SSOW#: 		Metals Appendix III & IV - EPA 6020 & EPA 7470 Radium 226 & 228 - SW-846 9315 & 9320 TTS - SM 2640C; Cl,F,SO4 - EPA 300 Perform MS/MSD (Yes or No)		Field Filtered Sample (Yes or No)		Matrix (W=water, S=solid, O=wastewater, BT=Tissue, A=Air)		Sample Date 8/19/16 8/19/16	
Sample Identification SGWC-23 DUP-6		Sample Type (C=Comp, G=grab) G G		Preservation Code: 111 111		Sample Time 0758 ---		Matrix Water Water Water Water Water Water Water Water Water	
Possible Hazard Identification <input checked="" type="checkbox"/> Non-Hazard <input type="checkbox"/> Flammable <input type="checkbox"/> Skin Irritant <input type="checkbox"/> Poison B <input type="checkbox"/> Unknown <input type="checkbox"/> Radiological									
Deliverable Requested: I, II, III, IV, Other (specify)									
Empty Kit Relinquished by:									
Relinquished by: <i>[Signature]</i> Date: 8/19/16 Time: 14:40 Company: AECOM									
Relinquished by: <i>[Signature]</i> Date/Time: 8/20/16 8:56 Company: TR									
Relinquished by: <i>[Signature]</i> Date/Time: 0.0°C Company: IRS									
Custody Seals Intact: <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Δ <input type="checkbox"/> No									

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Login Sample Receipt Checklist

Client: Southern Company

Job Number: 400-126027-1

SDG Number: Plant Scherer

Login Number: 126027

List Number: 1

Creator: Whitmire, Cheyenne R

List Source: TestAmerica Pensacola

Question	Answer	Comment
Radioactivity wasn't checked or is \leq background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	N/A	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	1.9°C, 0.0°C, 1.8°C IR6 1.2°C, 3.1°C, 0.1°C, 1.4°C, 0.0°C IR-5
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 <math><6\text{mm}</math> (1/4").	N/A	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

Certification Summary

Client: Southern Company
Project/Site: CCR Plant Scherer

TestAmerica Job ID: 400-126027-1
SDG: Plant Scherer

Laboratory: TestAmerica Pensacola

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

Authority	Program	EPA Region	Certification ID	Expiration Date
Alabama	State Program	4	40150	06-30-17
Arizona	State Program	9	AZ0710	01-11-17
Arkansas DEQ	State Program	6	88-0689	09-01-16 *
California	ELAP	9	2510	03-31-18
Florida	NELAP	4	E81010	06-30-17
Georgia	State Program	4	N/A	06-30-17
Illinois	NELAP	5	200041	10-09-16
Iowa	State Program	7	367	07-31-16 *
Kansas	NELAP	7	E-10253	10-31-16
Kentucky (UST)	State Program	4	53	06-30-17
Kentucky (WW)	State Program	4	98030	12-31-16
Louisiana	NELAP	6	30976	06-30-17
Maryland	State Program	3	233	09-30-17
Massachusetts	State Program	1	M-FL094	06-30-17
Michigan	State Program	5	9912	05-06-17
New Jersey	NELAP	2	FL006	06-30-17
North Carolina (WW/SW)	State Program	4	314	12-31-16
Oklahoma	State Program	6	9810	08-31-17
Pennsylvania	NELAP	3	68-00467	01-31-17
Rhode Island	State Program	1	LAO00307	12-30-16
South Carolina	State Program	4	96026	06-30-16 *
Tennessee	State Program	4	TN02907	06-30-17
Texas	NELAP	6	T104704286-15-9	09-30-16
USDA	Federal		P330-16-00172	05-24-19
Virginia	NELAP	3	460166	06-14-17
Washington	State Program	10	C915	05-15-17
West Virginia DEP	State Program	3	136	08-31-16 *

* Certification renewal pending - certification considered valid.

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

TestAmerica Laboratories, Inc.

TestAmerica Pensacola

3355 McLemore Drive

Pensacola, FL 32514

Tel: (850)474-1001

TestAmerica Job ID: 400-126027-2

TestAmerica Sample Delivery Group: Plant Scherer

Client Project/Site: CCR Plant Scherer

For:

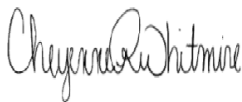
Southern Company

241 Ralph McGill Blvd SE

B10185

Atlanta, Georgia 30308

Attn: Joju Abraham



Authorized for release by:

9/19/2016 6:15:01 PM

Cheyenne Whitmire, Project Manager II

(850)471-6222

cheyenne.whitmire@testamericainc.com

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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.

1

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7

8

9

10

11

12

13



Table of Contents

Cover Page	1
Table of Contents	2
Case Narrative	3
Method Summary	4
Sample Summary	5
Client Sample Results	6
Definitions	29
Chronicle	30
QC Association	36
QC Sample Results	38
Chain of Custody	41
Receipt Checklists	48
Certification Summary	49

Case Narrative

Client: Southern Company
Project/Site: CCR Plant Scherer

TestAmerica Job ID: 400-126027-2
SDG: Plant Scherer

Job ID: 400-126027-2

Laboratory: TestAmerica Pensacola

Narrative

Job Narrative 400-126027-2

RAD

Method(s) PrecSep_0: Insufficient sample volume was available to perform a sample duplicate (DUP) associated with preparation batch 160-266443.

Method(s) PrecSep_0: Radium-228 Prep Batch 160-26625: Insufficient sample volume was available to perform a sample duplicate (DUP) for the following samples: FB-4 (400-126027-1), SGWA-25 (400-126027-2), SGWC-7 (400-126027-3), SGWC-11 (400-126027-4), SGWC-6 (400-126027-5), SGWC-10 (400-126027-6), EQB-4 (400-126027-7), SGWA-4 (400-126027-8), SGWC-8 (400-126027-9), SGWC-12 (400-126027-10), SGWC-14 (400-126027-11), SGWC-16 (400-126027-12), EQB-5 (400-126027-13), DUP-5 (400-126027-14), SGWC-13 (400-126027-15), FB-5 (400-126027-16), SGWC-15 (400-126027-17), SGWC-17 (400-126027-18), SGWC-22 (400-126027-19) and FB-6 (400-126027-20). A laboratory control sample/ laboratory control sample duplicate (LCS/LCSD) were prepared to demonstrate batch precision.

Method(s) PrecSep_0: Radium-228 Prep Batch 160-266125: A deviation from the Standard Operating Procedure (SOP) occurred. Samples were re-prepared as follows: Precipitate on planchet was re-dissolved with EDTA, moved to a centrifuge tube, added standardized yttrium carrier and lead carrier. Samples were placed into a "re-ingrowth" period of at least 36 hours. This is to ensure proper separation of the yttrium oxalate and the barium sulfate which was believed to not have fully separated causing a high radium-228 spike recovery. New T1 times were recorded for the actinium-228, but not for the radium-226. Original T1 time will be used for the radium-226 portion as recorded in TALs. FB-4 (400-126027-1), SGWA-25 (400-126027-2), SGWC-7 (400-126027-3), SGWC-11 (400-126027-4), SGWC-6 (400-126027-5), SGWC-10 (400-126027-6), EQB-4 (400-126027-7), SGWA-4 (400-126027-8), SGWC-8 (400-126027-9), SGWC-12 (400-126027-10), SGWC-14 (400-126027-11), SGWC-16 (400-126027-12), EQB-5 (400-126027-13), DUP-5 (400-126027-14), SGWC-13 (400-126027-15), FB-5 (400-126027-16), SGWC-15 (400-126027-17), SGWC-17 (400-126027-18), SGWC-22 (400-126027-19) and FB-6 (400-126027-20)

Method(s) PrecSep-21: Insufficient sample volume was available to perform a sample duplicate (DUP) associated with preparation batch 160-266442.

Method(s) PrecSep-21: Radium-226 Prep Batch 160-266723: Insufficient sample volume was available to perform a sample duplicate (DUP) for the following samples: FB-4 (400-126027-1), SGWA-25 (400-126027-2), SGWC-7 (400-126027-3), SGWC-11 (400-126027-4), SGWC-6 (400-126027-5), SGWC-10 (400-126027-6), EQB-4 (400-126027-7), SGWA-4 (400-126027-8), SGWC-8 (400-126027-9), SGWC-12 (400-126027-10), SGWC-14 (400-126027-11), SGWC-16 (400-126027-12), EQB-5 (400-126027-13), DUP-5 (400-126027-14), SGWC-13 (400-126027-15), FB-5 (400-126027-16), SGWC-15 (400-126027-17), SGWC-17 (400-126027-18), SGWC-22 (400-126027-19) and FB-6 (400-126027-20). A laboratory control sample/ laboratory control sample duplicate (LCS/LCSD) were prepared to demonstrate batch precision.

Method(s) PrecSep-21: Radium-228 Prep Batch 160-266125: A deviation from the Standard Operating Procedure (SOP) occurred. Samples were re-prepared as follows: Precipitate on planchet was re-dissolved with EDTA, moved to a centrifuge tube, added standardized yttrium carrier and lead carrier. Samples were placed into a "re-ingrowth" period of at least 36 hours. This is to ensure proper separation of the yttrium oxalate and the barium sulfate which was believed to not have fully separated causing a high radium-228 spike recovery. New T1 times were recorded for the actinium-228, but not for the radium-226. Original T1 time will be used for the radium-226 portion as recorded in TALs. FB-4 (400-126027-1), SGWA-25 (400-126027-2), SGWC-7 (400-126027-3), SGWC-11 (400-126027-4), SGWC-6 (400-126027-5), SGWC-10 (400-126027-6), EQB-4 (400-126027-7), SGWA-4 (400-126027-8), SGWC-8 (400-126027-9), SGWC-12 (400-126027-10), SGWC-14 (400-126027-11), SGWC-16 (400-126027-12), EQB-5 (400-126027-13), DUP-5 (400-126027-14), SGWC-13 (400-126027-15), FB-5 (400-126027-16), SGWC-15 (400-126027-17), SGWC-17 (400-126027-18), SGWC-22 (400-126027-19) and FB-6 (400-126027-20)

Method Summary

Client: Southern Company
Project/Site: CCR Plant Scherer

TestAmerica Job ID: 400-126027-2
SDG: Plant Scherer

Method	Method Description	Protocol	Laboratory
9315	Radium-226 (GFPC)	SW846	TAL SL
9320	Radium-228 (GFPC)	SW846	TAL SL
Ra226_Ra228	Combined Radium-226 and Radium-228	TAL-STL	TAL SL

Protocol References:

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:

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



Sample Summary

Client: Southern Company
Project/Site: CCR Plant Scherer

TestAmerica Job ID: 400-126027-2
SDG: Plant Scherer

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
400-126027-1	FB-4	Water	08/17/16 09:08	08/18/16 10:07
400-126027-2	SGWA-25	Water	08/17/16 09:46	08/18/16 10:07
400-126027-3	SGWC-7	Water	08/17/16 11:25	08/18/16 10:07
400-126027-4	SGWC-11	Water	08/17/16 14:45	08/18/16 10:07
400-126027-5	SGWC-6	Water	08/17/16 11:40	08/18/16 10:07
400-126027-6	SGWC-10	Water	08/17/16 14:15	08/18/16 10:07
400-126027-7	EQB-4	Water	08/17/16 15:45	08/18/16 10:07
400-126027-8	SGWA-4	Water	08/17/16 10:49	08/18/16 10:07
400-126027-9	SGWC-8	Water	08/17/16 14:14	08/18/16 10:07
400-126027-10	SGWC-12	Water	08/18/16 09:01	08/19/16 10:15
400-126027-11	SGWC-14	Water	08/18/16 11:01	08/19/16 10:15
400-126027-12	SGWC-16	Water	08/18/16 13:42	08/19/16 10:15
400-126027-13	EQB-5	Water	08/18/16 14:47	08/19/16 10:15
400-126027-14	DUP-5	Water	08/18/16 00:00	08/19/16 10:15
400-126027-15	SGWC-13	Water	08/18/16 08:45	08/19/16 10:15
400-126027-16	FB-5	Water	08/18/16 09:15	08/19/16 10:15
400-126027-17	SGWC-15	Water	08/18/16 11:20	08/19/16 10:15
400-126027-18	SGWC-17	Water	08/18/16 13:47	08/19/16 10:15
400-126027-19	SGWC-22	Water	08/19/16 08:33	08/20/16 08:56
400-126027-20	FB-6	Water	08/19/16 08:53	08/20/16 08:56
400-126027-21	EQB-6	Water	08/19/16 09:45	08/20/16 08:56
400-126027-22	SGWC-23	Water	08/19/16 07:58	08/20/16 08:56
400-126027-23	DUP-6	Water	08/19/16 00:00	08/20/16 08:56

Client Sample Results

Client: Southern Company
Project/Site: CCR Plant Scherer

TestAmerica Job ID: 400-126027-2
SDG: Plant Scherer

Client Sample ID: FB-4
Date Collected: 08/17/16 09:08
Date Received: 08/18/16 10:07

Lab Sample ID: 400-126027-1
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	-0.0523	U	0.0928	0.0930	1.00	0.209	pCi/L	08/25/16 19:30	09/17/16 15:20	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	68.4		40 - 110					08/25/16 19:30	09/17/16 15:20	1

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.0766	U	0.331	0.331	1.00	0.579	pCi/L	08/25/16 20:13	09/16/16 13:44	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	68.4		40 - 110					08/25/16 20:13	09/16/16 13:44	1
Y Carrier	89.3		40 - 110					08/25/16 20:13	09/16/16 13:44	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	0.0244	U	0.344	0.344	5.00	0.579	pCi/L		09/19/16 04:47	1

Client Sample Results

Client: Southern Company
Project/Site: CCR Plant Scherer

TestAmerica Job ID: 400-126027-2
SDG: Plant Scherer

Client Sample ID: SGWA-25

Lab Sample ID: 400-126027-2

Date Collected: 08/17/16 09:46

Matrix: Water

Date Received: 08/18/16 10:07

Method: 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	-0.0242	U	0.176	0.176	1.00	0.341	pCi/L	08/25/16 19:30	09/17/16 15:20	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	49.0		40 - 110					08/25/16 19:30	09/17/16 15:20	1

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.172	U	0.408	0.408	1.00	0.704	pCi/L	08/25/16 20:13	09/16/16 13:44	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	49.0		40 - 110					08/25/16 20:13	09/16/16 13:44	1
Y Carrier	88.6		40 - 110					08/25/16 20:13	09/16/16 13:44	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	0.148	U	0.444	0.444	5.00	0.704	pCi/L		09/19/16 04:47	1

Client Sample Results

Client: Southern Company
Project/Site: CCR Plant Scherer

TestAmerica Job ID: 400-126027-2
SDG: Plant Scherer

Client Sample ID: SGWC-7

Lab Sample ID: 400-126027-3

Date Collected: 08/17/16 11:25

Matrix: Water

Date Received: 08/18/16 10:07

Method: 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.0517	U	0.119	0.119	1.00	0.213	pCi/L	08/25/16 19:30	09/17/16 15:28	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	68.7		40 - 110					08/25/16 19:30	09/17/16 15:28	1

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.613		0.346	0.351	1.00	0.514	pCi/L	08/25/16 20:13	09/16/16 13:44	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	68.7		40 - 110					08/25/16 20:13	09/16/16 13:44	1
Y Carrier	85.2		40 - 110					08/25/16 20:13	09/16/16 13:44	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	0.665		0.366	0.370	5.00	0.514	pCi/L		09/19/16 04:47	1

Client Sample Results

Client: Southern Company
Project/Site: CCR Plant Scherer

TestAmerica Job ID: 400-126027-2
SDG: Plant Scherer

Client Sample ID: SGWC-11

Lab Sample ID: 400-126027-4

Date Collected: 08/17/16 14:45

Matrix: Water

Date Received: 08/18/16 10:07

Method: 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.143	U	0.161	0.161	1.00	0.263	pCi/L	08/25/16 19:30	09/17/16 15:29	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	65.0		40 - 110					08/25/16 19:30	09/17/16 15:29	1

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.224	U	0.359	0.359	1.00	0.606	pCi/L	08/25/16 20:13	09/16/16 13:44	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	65.0		40 - 110					08/25/16 20:13	09/16/16 13:44	1
Y Carrier	81.9		40 - 110					08/25/16 20:13	09/16/16 13:44	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	0.367	U	0.393	0.394	5.00	0.606	pCi/L		09/19/16 04:47	1

Client Sample Results

Client: Southern Company
Project/Site: CCR Plant Scherer

TestAmerica Job ID: 400-126027-2
SDG: Plant Scherer

Client Sample ID: SGWC-6

Lab Sample ID: 400-126027-5

Date Collected: 08/17/16 11:40

Matrix: Water

Date Received: 08/18/16 10:07

Method: 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.0420	U	0.103	0.104	1.00	0.189	pCi/L	08/25/16 19:30	09/17/16 15:29	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	66.7		40 - 110					08/25/16 19:30	09/17/16 15:29	1

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.530	U	0.365	0.368	1.00	0.565	pCi/L	08/25/16 20:13	09/16/16 13:44	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	66.7		40 - 110					08/25/16 20:13	09/16/16 13:44	1
Y Carrier	82.6		40 - 110					08/25/16 20:13	09/16/16 13:44	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	0.572		0.379	0.383	5.00	0.565	pCi/L		09/19/16 04:47	1

Client Sample Results

Client: Southern Company
Project/Site: CCR Plant Scherer

TestAmerica Job ID: 400-126027-2
SDG: Plant Scherer

Client Sample ID: SGWC-10

Lab Sample ID: 400-126027-6

Date Collected: 08/17/16 14:15

Matrix: Water

Date Received: 08/18/16 10:07

Method: 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.109	U	0.136	0.136	1.00	0.224	pCi/L	08/25/16 19:30	09/17/16 15:29	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	50.1		40 - 110					08/25/16 19:30	09/17/16 15:29	1

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.440	U	0.471	0.473	1.00	0.770	pCi/L	08/25/16 20:13	09/16/16 13:44	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	50.1		40 - 110					08/25/16 20:13	09/16/16 13:44	1
Y Carrier	83.4		40 - 110					08/25/16 20:13	09/16/16 13:44	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	0.548	U	0.490	0.492	5.00	0.770	pCi/L		09/19/16 04:47	1

Client Sample Results

Client: Southern Company
Project/Site: CCR Plant Scherer

TestAmerica Job ID: 400-126027-2
SDG: Plant Scherer

Client Sample ID: EQB-4
Date Collected: 08/17/16 15:45
Date Received: 08/18/16 10:07

Lab Sample ID: 400-126027-7
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	0.0564	U	0.0994	0.0996	1.00	0.175	pCi/L	08/25/16 19:30	09/17/16 15:29	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	70.9		40 - 110					08/25/16 19:30	09/17/16 15:29	1

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.214	U	0.327	0.328	1.00	0.550	pCi/L	08/25/16 20:13	09/16/16 13:44	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	70.9		40 - 110					08/25/16 20:13	09/16/16 13:44	1
Y Carrier	81.1		40 - 110					08/25/16 20:13	09/16/16 13:44	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	0.270	U	0.342	0.342	5.00	0.550	pCi/L		09/19/16 04:47	1

Client Sample Results

Client: Southern Company
Project/Site: CCR Plant Scherer

TestAmerica Job ID: 400-126027-2
SDG: Plant Scherer

Client Sample ID: SGWA-4

Lab Sample ID: 400-126027-8

Date Collected: 08/17/16 10:49

Matrix: Water

Date Received: 08/18/16 10:07

Method: 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.0957	U	0.116	0.116	1.00	0.191	pCi/L	08/25/16 19:30	09/17/16 15:31	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	69.5		40 - 110					08/25/16 19:30	09/17/16 15:31	1

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.106	U	0.343	0.343	1.00	0.595	pCi/L	08/25/16 20:13	09/16/16 13:45	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	69.5		40 - 110					08/25/16 20:13	09/16/16 13:45	1
Y Carrier	86.0		40 - 110					08/25/16 20:13	09/16/16 13:45	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	0.202	U	0.362	0.362	5.00	0.595	pCi/L		09/19/16 04:47	1

Client Sample Results

Client: Southern Company
Project/Site: CCR Plant Scherer

TestAmerica Job ID: 400-126027-2
SDG: Plant Scherer

Client Sample ID: SGWC-8

Lab Sample ID: 400-126027-9

Date Collected: 08/17/16 14:14

Matrix: Water

Date Received: 08/18/16 10:07

Method: 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.821		0.202	0.215	1.00	0.169	pCi/L	08/25/16 19:30	09/17/16 15:30	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	74.9		40 - 110					08/25/16 19:30	09/17/16 15:30	1

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	1.75		0.433	0.462	1.00	0.521	pCi/L	08/25/16 20:13	09/16/16 13:45	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	74.9		40 - 110					08/25/16 20:13	09/16/16 13:45	1
Y Carrier	83.4		40 - 110					08/25/16 20:13	09/16/16 13:45	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	2.57		0.478	0.510	5.00	0.521	pCi/L		09/19/16 04:47	1

Client Sample Results

Client: Southern Company
 Project/Site: CCR Plant Scherer

TestAmerica Job ID: 400-126027-2
 SDG: Plant Scherer

Client Sample ID: SGWC-12

Lab Sample ID: 400-126027-10

Date Collected: 08/18/16 09:01

Matrix: Water

Date Received: 08/19/16 10:15

Method: 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.0247	U	0.107	0.107	1.00	0.203	pCi/L	08/25/16 19:30	09/17/16 15:31	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	59.8		40 - 110					08/25/16 19:30	09/17/16 15:31	1

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.189	U	0.363	0.364	1.00	0.620	pCi/L	08/25/16 20:13	09/16/16 13:45	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	59.8		40 - 110					08/25/16 20:13	09/16/16 13:45	1
Y Carrier	88.2		40 - 110					08/25/16 20:13	09/16/16 13:45	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	0.214	U	0.379	0.379	5.00	0.620	pCi/L		09/19/16 04:47	1

Client Sample Results

Client: Southern Company
Project/Site: CCR Plant Scherer

TestAmerica Job ID: 400-126027-2
SDG: Plant Scherer

Client Sample ID: SGWC-14

Lab Sample ID: 400-126027-11

Date Collected: 08/18/16 11:01

Matrix: Water

Date Received: 08/19/16 10:15

Method: 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.101	U	0.155	0.155	1.00	0.264	pCi/L	08/25/16 19:30	09/17/16 18:29	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	54.4		40 - 110					08/25/16 19:30	09/17/16 18:29	1

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.111	U	0.380	0.380	1.00	0.663	pCi/L	08/25/16 20:13	09/16/16 13:46	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	54.4		40 - 110					08/25/16 20:13	09/16/16 13:46	1
Y Carrier	91.2		40 - 110					08/25/16 20:13	09/16/16 13:46	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	0.212	U	0.410	0.410	5.00	0.663	pCi/L		09/19/16 04:47	1

Client Sample Results

Client: Southern Company
 Project/Site: CCR Plant Scherer

TestAmerica Job ID: 400-126027-2
 SDG: Plant Scherer

Client Sample ID: SGWC-16

Lab Sample ID: 400-126027-12

Date Collected: 08/18/16 13:42

Matrix: Water

Date Received: 08/19/16 10:15

Method: 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.0353	U	0.125	0.125	1.00	0.228	pCi/L	08/25/16 19:30	09/17/16 18:29	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	68.4		40 - 110					08/25/16 19:30	09/17/16 18:29	1

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.164	U	0.327	0.328	1.00	0.558	pCi/L	08/25/16 20:13	09/16/16 13:46	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	68.4		40 - 110					08/25/16 20:13	09/16/16 13:46	1
Y Carrier	90.1		40 - 110					08/25/16 20:13	09/16/16 13:46	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	0.199	U	0.351	0.351	5.00	0.558	pCi/L		09/19/16 04:47	1

Client Sample Results

Client: Southern Company
Project/Site: CCR Plant Scherer

TestAmerica Job ID: 400-126027-2
SDG: Plant Scherer

Client Sample ID: EQB-5
Date Collected: 08/18/16 14:47
Date Received: 08/19/16 10:15

Lab Sample ID: 400-126027-13
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	0.100	U	0.119	0.119	1.00	0.195	pCi/L	08/25/16 19:30	09/17/16 18:29	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	74.1		40 - 110					08/25/16 19:30	09/17/16 18:29	1

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.0224	U	0.289	0.289	1.00	0.514	pCi/L	08/25/16 20:13	09/16/16 13:47	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	74.1		40 - 110					08/25/16 20:13	09/16/16 13:47	1
Y Carrier	90.8		40 - 110					08/25/16 20:13	09/16/16 13:47	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	0.123	U	0.313	0.313	5.00	0.514	pCi/L		09/19/16 04:47	1

Client Sample Results

Client: Southern Company
Project/Site: CCR Plant Scherer

TestAmerica Job ID: 400-126027-2
SDG: Plant Scherer

Client Sample ID: DUP-5

Date Collected: 08/18/16 00:00

Date Received: 08/19/16 10:15

Lab Sample ID: 400-126027-14

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	0.0988	U	0.164	0.164	1.00	0.283	pCi/L	08/25/16 19:30	09/17/16 18:30	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	45.6		40 - 110					08/25/16 19:30	09/17/16 18:30	1

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.214	U	0.464	0.464	1.00	0.796	pCi/L	08/25/16 20:13	09/16/16 13:47	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	45.6		40 - 110					08/25/16 20:13	09/16/16 13:47	1
Y Carrier	90.5		40 - 110					08/25/16 20:13	09/16/16 13:47	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	0.313	U	0.492	0.493	5.00	0.796	pCi/L		09/19/16 04:47	1

Client Sample Results

Client: Southern Company
Project/Site: CCR Plant Scherer

TestAmerica Job ID: 400-126027-2
SDG: Plant Scherer

Client Sample ID: SGWC-13

Lab Sample ID: 400-126027-15

Date Collected: 08/18/16 08:45

Matrix: Water

Date Received: 08/19/16 10:15

Method: 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	0.149	0.149	1.00	0.287	pCi/L	08/25/16 19:30	09/17/16 18:30	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	41.3		40 - 110					08/25/16 19:30	09/17/16 18:30	1

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.267	U	0.541	0.542	1.00	0.925	pCi/L	08/25/16 20:13	09/16/16 13:47	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	41.3		40 - 110					08/25/16 20:13	09/16/16 13:47	1
Y Carrier	86.4		40 - 110					08/25/16 20:13	09/16/16 13:47	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	0.286	U	0.561	0.562	5.00	0.925	pCi/L		09/19/16 04:47	1

Client Sample Results

Client: Southern Company
Project/Site: CCR Plant Scherer

TestAmerica Job ID: 400-126027-2
SDG: Plant Scherer

Client Sample ID: FB-5
Date Collected: 08/18/16 09:15
Date Received: 08/19/16 10:15

Lab Sample ID: 400-126027-16
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	0.0240	U	0.119	0.119	1.00	0.227	pCi/L	08/25/16 19:30	09/17/16 18:30	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	51.0		40 - 110					08/25/16 19:30	09/17/16 18:30	1

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.188	U	0.476	0.476	1.00	0.818	pCi/L	08/25/16 20:13	09/16/16 13:33	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	51.0		40 - 110					08/25/16 20:13	09/16/16 13:33	1
Y Carrier	85.6		40 - 110					08/25/16 20:13	09/16/16 13:33	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	0.212	U	0.491	0.491	5.00	0.818	pCi/L		09/19/16 04:47	1

Client Sample Results

Client: Southern Company
Project/Site: CCR Plant Scherer

TestAmerica Job ID: 400-126027-2
SDG: Plant Scherer

Client Sample ID: SGWC-15

Lab Sample ID: 400-126027-17

Date Collected: 08/18/16 11:20

Matrix: Water

Date Received: 08/19/16 10:15

Method: 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.0411	U	0.165	0.165	1.00	0.300	pCi/L	08/25/16 19:30	09/17/16 18:30	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	55.0		40 - 110					08/25/16 19:30	09/17/16 18:30	1

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.461	U	0.434	0.436	1.00	0.702	pCi/L	08/25/16 20:13	09/16/16 13:33	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	55.0		40 - 110					08/25/16 20:13	09/16/16 13:33	1
Y Carrier	86.4		40 - 110					08/25/16 20:13	09/16/16 13:33	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	0.503	U	0.465	0.467	5.00	0.702	pCi/L		09/19/16 04:47	1

Client Sample Results

Client: Southern Company
Project/Site: CCR Plant Scherer

TestAmerica Job ID: 400-126027-2
SDG: Plant Scherer

Client Sample ID: SGWC-17

Lab Sample ID: 400-126027-18

Date Collected: 08/18/16 13:47

Matrix: Water

Date Received: 08/19/16 10:15

Method: 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.0506	U	0.105	0.105	1.00	0.187	pCi/L	08/25/16 19:30	09/17/16 18:31	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	66.1		40 - 110					08/25/16 19:30	09/17/16 18:31	1

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.448	U	0.386	0.389	1.00	0.619	pCi/L	08/25/16 20:13	09/16/16 13:39	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	66.1		40 - 110					08/25/16 20:13	09/16/16 13:39	1
Y Carrier	86.0		40 - 110					08/25/16 20:13	09/16/16 13:39	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	0.498	U	0.400	0.403	5.00	0.619	pCi/L		09/19/16 04:47	1

Client Sample Results

Client: Southern Company
Project/Site: CCR Plant Scherer

TestAmerica Job ID: 400-126027-2
SDG: Plant Scherer

Client Sample ID: SGWC-22

Lab Sample ID: 400-126027-19

Date Collected: 08/19/16 08:33

Matrix: Water

Date Received: 08/20/16 08:56

Method: 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.139	U	0.165	0.165	1.00	0.270	pCi/L	08/25/16 19:30	09/17/16 18:31	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	41.9		40 - 110					08/25/16 19:30	09/17/16 18:31	1

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.227	U	0.559	0.560	1.00	0.960	pCi/L	08/25/16 20:13	09/16/16 13:33	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	41.9		40 - 110					08/25/16 20:13	09/16/16 13:33	1
Y Carrier	90.5		40 - 110					08/25/16 20:13	09/16/16 13:33	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	0.367	U	0.583	0.584	5.00	0.960	pCi/L		09/19/16 04:47	1

Client Sample Results

Client: Southern Company
Project/Site: CCR Plant Scherer

TestAmerica Job ID: 400-126027-2
SDG: Plant Scherer

Client Sample ID: FB-6
Date Collected: 08/19/16 08:53
Date Received: 08/20/16 08:56

Lab Sample ID: 400-126027-20
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	-0.0173	U	0.0873	0.0874	1.00	0.179	pCi/L	08/25/16 19:30	09/17/16 18:30	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	71.2		40 - 110					08/25/16 19:30	09/17/16 18:30	1

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.430	U	0.304	0.307	1.00	0.472	pCi/L	08/25/16 20:13	09/16/16 13:34	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	71.2		40 - 110					08/25/16 20:13	09/16/16 13:34	1
Y Carrier	89.3		40 - 110					08/25/16 20:13	09/16/16 13:34	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	0.413	U	0.317	0.319	5.00	0.472	pCi/L		09/19/16 04:47	1

Client Sample Results

Client: Southern Company
Project/Site: CCR Plant Scherer

TestAmerica Job ID: 400-126027-2
SDG: Plant Scherer

Client Sample ID: EQB-6
Date Collected: 08/19/16 09:45
Date Received: 08/20/16 08:56

Lab Sample ID: 400-126027-21
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	0.0753	U	0.0543	0.0548	1.00	0.0782	pCi/L	08/24/16 19:56	09/15/16 07:36	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	96.9		40 - 110					08/24/16 19:56	09/15/16 07:36	1

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.111	U	0.350	0.350	1.00	0.602	pCi/L	08/24/16 20:20	09/09/16 14:27	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	96.9		40 - 110					08/24/16 20:20	09/09/16 14:27	1
Y Carrier	75.5		40 - 110					08/24/16 20:20	09/09/16 14:27	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	0.187	U	0.354	0.355	5.00	0.602	pCi/L		09/19/16 04:47	1

Client Sample Results

Client: Southern Company
Project/Site: CCR Plant Scherer

TestAmerica Job ID: 400-126027-2
SDG: Plant Scherer

Client Sample ID: SGWC-23

Lab Sample ID: 400-126027-22

Date Collected: 08/19/16 07:58

Matrix: Water

Date Received: 08/20/16 08:56

Method: 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.394		0.0957	0.102	1.00	0.0733	pCi/L	08/24/16 19:56	09/15/16 07:36	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	90.0		40 - 110					08/24/16 19:56	09/15/16 07:36	1

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.475		0.299	0.302	1.00	0.459	pCi/L	08/24/16 20:20	09/09/16 14:27	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	90.0		40 - 110					08/24/16 20:20	09/09/16 14:27	1
Y Carrier	89.3		40 - 110					08/24/16 20:20	09/09/16 14:27	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	0.869		0.314	0.319	5.00	0.459	pCi/L		09/19/16 04:47	1

Client Sample Results

Client: Southern Company
Project/Site: CCR Plant Scherer

TestAmerica Job ID: 400-126027-2
SDG: Plant Scherer

Client Sample ID: DUP-6
Date Collected: 08/19/16 00:00
Date Received: 08/20/16 08:56

Lab Sample ID: 400-126027-23
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	0.453		0.113	0.120	1.00	0.111	pCi/L	08/24/16 19:56	09/15/16 07:37	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	83.8		40 - 110					08/24/16 19:56	09/15/16 07:37	1

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	-0.0393	U	0.296	0.296	1.00	0.532	pCi/L	08/24/16 20:20	09/09/16 14:28	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	83.8		40 - 110					08/24/16 20:20	09/09/16 14:28	1
Y Carrier	90.5		40 - 110					08/24/16 20:20	09/09/16 14:28	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	0.413	U	0.317	0.320	5.00	0.532	pCi/L		09/19/16 04:47	1

Definitions/Glossary

Client: Southern Company
Project/Site: CCR Plant Scherer

TestAmerica Job ID: 400-126027-2
SDG: Plant Scherer

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
CNF	Contains no Free Liquid
DER	Duplicate error ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision level concentration
MDA	Minimum detectable activity
EDL	Estimated Detection Limit
MDC	Minimum detectable concentration
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
NC	Not Calculated
ND	Not detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RER	Relative error ratio
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)

Lab Chronicle

Client: Southern Company
Project/Site: CCR Plant Scherer

TestAmerica Job ID: 400-126027-2
SDG: Plant Scherer

Client Sample ID: FB-4
Date Collected: 08/17/16 09:08
Date Received: 08/18/16 10:07

Lab Sample ID: 400-126027-1
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			266723	08/25/16 19:30	MCJ	TAL SL
Total/NA	Analysis	9315		1	270402	09/17/16 15:20	ALS	TAL SL
Total/NA	Prep	PrecSep_0			266725	08/25/16 20:13	MCJ	TAL SL
Total/NA	Analysis	9320		1	270279	09/16/16 13:44	RTM	TAL SL
Total/NA	Analysis	Ra226_Ra228		1	270416	09/19/16 04:47	ALS	TAL SL

Client Sample ID: SGWA-25
Date Collected: 08/17/16 09:46
Date Received: 08/18/16 10:07

Lab Sample ID: 400-126027-2
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			266723	08/25/16 19:30	MCJ	TAL SL
Total/NA	Analysis	9315		1	270402	09/17/16 15:20	ALS	TAL SL
Total/NA	Prep	PrecSep_0			266725	08/25/16 20:13	MCJ	TAL SL
Total/NA	Analysis	9320		1	270279	09/16/16 13:44	RTM	TAL SL
Total/NA	Analysis	Ra226_Ra228		1	270416	09/19/16 04:47	ALS	TAL SL

Client Sample ID: SGWC-7
Date Collected: 08/17/16 11:25
Date Received: 08/18/16 10:07

Lab Sample ID: 400-126027-3
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			266723	08/25/16 19:30	MCJ	TAL SL
Total/NA	Analysis	9315		1	270404	09/17/16 15:28	ALS	TAL SL
Total/NA	Prep	PrecSep_0			266725	08/25/16 20:13	MCJ	TAL SL
Total/NA	Analysis	9320		1	270279	09/16/16 13:44	RTM	TAL SL
Total/NA	Analysis	Ra226_Ra228		1	270416	09/19/16 04:47	ALS	TAL SL

Client Sample ID: SGWC-11
Date Collected: 08/17/16 14:45
Date Received: 08/18/16 10:07

Lab Sample ID: 400-126027-4
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			266723	08/25/16 19:30	MCJ	TAL SL
Total/NA	Analysis	9315		1	270404	09/17/16 15:29	ALS	TAL SL
Total/NA	Prep	PrecSep_0			266725	08/25/16 20:13	MCJ	TAL SL
Total/NA	Analysis	9320		1	270279	09/16/16 13:44	RTM	TAL SL
Total/NA	Analysis	Ra226_Ra228		1	270416	09/19/16 04:47	ALS	TAL SL

Lab Chronicle

Client: Southern Company
Project/Site: CCR Plant Scherer

TestAmerica Job ID: 400-126027-2
SDG: Plant Scherer

Client Sample ID: SGWC-6

Lab Sample ID: 400-126027-5

Date Collected: 08/17/16 11:40

Matrix: Water

Date Received: 08/18/16 10:07

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			266723	08/25/16 19:30	MCJ	TAL SL
Total/NA	Analysis	9315		1	270404	09/17/16 15:29	ALS	TAL SL
Total/NA	Prep	PrecSep_0			266725	08/25/16 20:13	MCJ	TAL SL
Total/NA	Analysis	9320		1	270279	09/16/16 13:44	RTM	TAL SL
Total/NA	Analysis	Ra226_Ra228		1	270416	09/19/16 04:47	ALS	TAL SL

Client Sample ID: SGWC-10

Lab Sample ID: 400-126027-6

Date Collected: 08/17/16 14:15

Matrix: Water

Date Received: 08/18/16 10:07

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			266723	08/25/16 19:30	MCJ	TAL SL
Total/NA	Analysis	9315		1	270404	09/17/16 15:29	ALS	TAL SL
Total/NA	Prep	PrecSep_0			266725	08/25/16 20:13	MCJ	TAL SL
Total/NA	Analysis	9320		1	270279	09/16/16 13:44	RTM	TAL SL
Total/NA	Analysis	Ra226_Ra228		1	270416	09/19/16 04:47	ALS	TAL SL

Client Sample ID: EQB-4

Lab Sample ID: 400-126027-7

Date Collected: 08/17/16 15:45

Matrix: Water

Date Received: 08/18/16 10:07

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			266723	08/25/16 19:30	MCJ	TAL SL
Total/NA	Analysis	9315		1	270404	09/17/16 15:29	ALS	TAL SL
Total/NA	Prep	PrecSep_0			266725	08/25/16 20:13	MCJ	TAL SL
Total/NA	Analysis	9320		1	270279	09/16/16 13:44	RTM	TAL SL
Total/NA	Analysis	Ra226_Ra228		1	270416	09/19/16 04:47	ALS	TAL SL

Client Sample ID: SGWA-4

Lab Sample ID: 400-126027-8

Date Collected: 08/17/16 10:49

Matrix: Water

Date Received: 08/18/16 10:07

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			266723	08/25/16 19:30	MCJ	TAL SL
Total/NA	Analysis	9315		1	270403	09/17/16 15:31	ALS	TAL SL
Total/NA	Prep	PrecSep_0			266725	08/25/16 20:13	MCJ	TAL SL
Total/NA	Analysis	9320		1	270279	09/16/16 13:45	RTM	TAL SL
Total/NA	Analysis	Ra226_Ra228		1	270416	09/19/16 04:47	ALS	TAL SL

Lab Chronicle

Client: Southern Company
Project/Site: CCR Plant Scherer

TestAmerica Job ID: 400-126027-2
SDG: Plant Scherer

Client Sample ID: SGWC-8

Lab Sample ID: 400-126027-9

Date Collected: 08/17/16 14:14

Matrix: Water

Date Received: 08/18/16 10:07

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			266723	08/25/16 19:30	MCJ	TAL SL
Total/NA	Analysis	9315		1	270403	09/17/16 15:30	ALS	TAL SL
Total/NA	Prep	PrecSep_0			266725	08/25/16 20:13	MCJ	TAL SL
Total/NA	Analysis	9320		1	270279	09/16/16 13:45	RTM	TAL SL
Total/NA	Analysis	Ra226_Ra228		1	270416	09/19/16 04:47	ALS	TAL SL

Client Sample ID: SGWC-12

Lab Sample ID: 400-126027-10

Date Collected: 08/18/16 09:01

Matrix: Water

Date Received: 08/19/16 10:15

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			266723	08/25/16 19:30	MCJ	TAL SL
Total/NA	Analysis	9315		1	270403	09/17/16 15:31	ALS	TAL SL
Total/NA	Prep	PrecSep_0			266725	08/25/16 20:13	MCJ	TAL SL
Total/NA	Analysis	9320		1	270279	09/16/16 13:45	RTM	TAL SL
Total/NA	Analysis	Ra226_Ra228		1	270416	09/19/16 04:47	ALS	TAL SL

Client Sample ID: SGWC-14

Lab Sample ID: 400-126027-11

Date Collected: 08/18/16 11:01

Matrix: Water

Date Received: 08/19/16 10:15

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			266723	08/25/16 19:30	MCJ	TAL SL
Total/NA	Analysis	9315		1	270403	09/17/16 18:29	ALS	TAL SL
Total/NA	Prep	PrecSep_0			266725	08/25/16 20:13	MCJ	TAL SL
Total/NA	Analysis	9320		1	270279	09/16/16 13:46	RTM	TAL SL
Total/NA	Analysis	Ra226_Ra228		1	270416	09/19/16 04:47	ALS	TAL SL

Client Sample ID: SGWC-16

Lab Sample ID: 400-126027-12

Date Collected: 08/18/16 13:42

Matrix: Water

Date Received: 08/19/16 10:15

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			266723	08/25/16 19:30	MCJ	TAL SL
Total/NA	Analysis	9315		1	270403	09/17/16 18:29	ALS	TAL SL
Total/NA	Prep	PrecSep_0			266725	08/25/16 20:13	MCJ	TAL SL
Total/NA	Analysis	9320		1	270279	09/16/16 13:46	RTM	TAL SL
Total/NA	Analysis	Ra226_Ra228		1	270416	09/19/16 04:47	ALS	TAL SL

Lab Chronicle

Client: Southern Company
Project/Site: CCR Plant Scherer

TestAmerica Job ID: 400-126027-2
SDG: Plant Scherer

Client Sample ID: EQB-5

Lab Sample ID: 400-126027-13

Date Collected: 08/18/16 14:47

Matrix: Water

Date Received: 08/19/16 10:15

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			266723	08/25/16 19:30	MCJ	TAL SL
Total/NA	Analysis	9315		1	270403	09/17/16 18:29	ALS	TAL SL
Total/NA	Prep	PrecSep_0			266725	08/25/16 20:13	MCJ	TAL SL
Total/NA	Analysis	9320		1	270279	09/16/16 13:47	RTM	TAL SL
Total/NA	Analysis	Ra226_Ra228		1	270416	09/19/16 04:47	ALS	TAL SL

Client Sample ID: DUP-5

Lab Sample ID: 400-126027-14

Date Collected: 08/18/16 00:00

Matrix: Water

Date Received: 08/19/16 10:15

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			266723	08/25/16 19:30	MCJ	TAL SL
Total/NA	Analysis	9315		1	270403	09/17/16 18:30	ALS	TAL SL
Total/NA	Prep	PrecSep_0			266725	08/25/16 20:13	MCJ	TAL SL
Total/NA	Analysis	9320		1	270279	09/16/16 13:47	RTM	TAL SL
Total/NA	Analysis	Ra226_Ra228		1	270416	09/19/16 04:47	ALS	TAL SL

Client Sample ID: SGWC-13

Lab Sample ID: 400-126027-15

Date Collected: 08/18/16 08:45

Matrix: Water

Date Received: 08/19/16 10:15

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			266723	08/25/16 19:30	MCJ	TAL SL
Total/NA	Analysis	9315		1	270403	09/17/16 18:30	ALS	TAL SL
Total/NA	Prep	PrecSep_0			266725	08/25/16 20:13	MCJ	TAL SL
Total/NA	Analysis	9320		1	270279	09/16/16 13:47	RTM	TAL SL
Total/NA	Analysis	Ra226_Ra228		1	270416	09/19/16 04:47	ALS	TAL SL

Client Sample ID: FB-5

Lab Sample ID: 400-126027-16

Date Collected: 08/18/16 09:15

Matrix: Water

Date Received: 08/19/16 10:15

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			266723	08/25/16 19:30	MCJ	TAL SL
Total/NA	Analysis	9315		1	270403	09/17/16 18:30	ALS	TAL SL
Total/NA	Prep	PrecSep_0			266725	08/25/16 20:13	MCJ	TAL SL
Total/NA	Analysis	9320		1	270280	09/16/16 13:33	RTM	TAL SL
Total/NA	Analysis	Ra226_Ra228		1	270416	09/19/16 04:47	ALS	TAL SL

Lab Chronicle

Client: Southern Company
Project/Site: CCR Plant Scherer

TestAmerica Job ID: 400-126027-2
SDG: Plant Scherer

Client Sample ID: SGWC-15

Lab Sample ID: 400-126027-17

Date Collected: 08/18/16 11:20

Matrix: Water

Date Received: 08/19/16 10:15

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			266723	08/25/16 19:30	MCJ	TAL SL
Total/NA	Analysis	9315		1	270403	09/17/16 18:30	ALS	TAL SL
Total/NA	Prep	PrecSep_0			266725	08/25/16 20:13	MCJ	TAL SL
Total/NA	Analysis	9320		1	270280	09/16/16 13:33	RTM	TAL SL
Total/NA	Analysis	Ra226_Ra228		1	270416	09/19/16 04:47	ALS	TAL SL

Client Sample ID: SGWC-17

Lab Sample ID: 400-126027-18

Date Collected: 08/18/16 13:47

Matrix: Water

Date Received: 08/19/16 10:15

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			266723	08/25/16 19:30	MCJ	TAL SL
Total/NA	Analysis	9315		1	270403	09/17/16 18:31	ALS	TAL SL
Total/NA	Prep	PrecSep_0			266725	08/25/16 20:13	MCJ	TAL SL
Total/NA	Analysis	9320		1	270277	09/16/16 13:39	RTM	TAL SL
Total/NA	Analysis	Ra226_Ra228		1	270416	09/19/16 04:47	ALS	TAL SL

Client Sample ID: SGWC-22

Lab Sample ID: 400-126027-19

Date Collected: 08/19/16 08:33

Matrix: Water

Date Received: 08/20/16 08:56

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			266723	08/25/16 19:30	MCJ	TAL SL
Total/NA	Analysis	9315		1	270403	09/17/16 18:31	ALS	TAL SL
Total/NA	Prep	PrecSep_0			266725	08/25/16 20:13	MCJ	TAL SL
Total/NA	Analysis	9320		1	270280	09/16/16 13:33	RTM	TAL SL
Total/NA	Analysis	Ra226_Ra228		1	270416	09/19/16 04:47	ALS	TAL SL

Client Sample ID: FB-6

Lab Sample ID: 400-126027-20

Date Collected: 08/19/16 08:53

Matrix: Water

Date Received: 08/20/16 08:56

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			266723	08/25/16 19:30	MCJ	TAL SL
Total/NA	Analysis	9315		1	270403	09/17/16 18:30	ALS	TAL SL
Total/NA	Prep	PrecSep_0			266725	08/25/16 20:13	MCJ	TAL SL
Total/NA	Analysis	9320		1	270280	09/16/16 13:34	RTM	TAL SL
Total/NA	Analysis	Ra226_Ra228		1	270416	09/19/16 04:47	ALS	TAL SL

Lab Chronicle

Client: Southern Company
Project/Site: CCR Plant Scherer

TestAmerica Job ID: 400-126027-2
SDG: Plant Scherer

Client Sample ID: EQB-6

Lab Sample ID: 400-126027-21

Date Collected: 08/19/16 09:45

Matrix: Water

Date Received: 08/20/16 08:56

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			266442	08/24/16 19:56	MCJ	TAL SL
Total/NA	Analysis	9315		1	269972	09/15/16 07:36	RTM	TAL SL
Total/NA	Prep	PrecSep_0			266443	08/24/16 20:20	MCJ	TAL SL
Total/NA	Analysis	9320		1	268852	09/09/16 14:27	JLW	TAL SL
Total/NA	Analysis	Ra226_Ra228		1	270416	09/19/16 04:47	ALS	TAL SL

Client Sample ID: SGWC-23

Lab Sample ID: 400-126027-22

Date Collected: 08/19/16 07:58

Matrix: Water

Date Received: 08/20/16 08:56

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			266442	08/24/16 19:56	MCJ	TAL SL
Total/NA	Analysis	9315		1	269972	09/15/16 07:36	RTM	TAL SL
Total/NA	Prep	PrecSep_0			266443	08/24/16 20:20	MCJ	TAL SL
Total/NA	Analysis	9320		1	268852	09/09/16 14:27	JLW	TAL SL
Total/NA	Analysis	Ra226_Ra228		1	270416	09/19/16 04:47	ALS	TAL SL

Client Sample ID: DUP-6

Lab Sample ID: 400-126027-23

Date Collected: 08/19/16 00:00

Matrix: Water

Date Received: 08/20/16 08:56

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			266442	08/24/16 19:56	MCJ	TAL SL
Total/NA	Analysis	9315		1	269972	09/15/16 07:37	RTM	TAL SL
Total/NA	Prep	PrecSep_0			266443	08/24/16 20:20	MCJ	TAL SL
Total/NA	Analysis	9320		1	268852	09/09/16 14:28	JLW	TAL SL
Total/NA	Analysis	Ra226_Ra228		1	270416	09/19/16 04:47	ALS	TAL SL

Laboratory References:

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

QC Association Summary

Client: Southern Company
Project/Site: CCR Plant Scherer

TestAmerica Job ID: 400-126027-2
SDG: Plant Scherer

Rad

Prep Batch: 266442

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-126027-21	EQB-6	Total/NA	Water	PrecSep-21	
400-126027-22	SGWC-23	Total/NA	Water	PrecSep-21	
400-126027-23	DUP-6	Total/NA	Water	PrecSep-21	
MB 160-266442/1-A	Method Blank	Total/NA	Water	PrecSep-21	
LCS 160-266442/2-A	Lab Control Sample	Total/NA	Water	PrecSep-21	
LCSD 160-266442/3-A	Lab Control Sample Dup	Total/NA	Water	PrecSep-21	

Prep Batch: 266443

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-126027-21	EQB-6	Total/NA	Water	PrecSep_0	
400-126027-22	SGWC-23	Total/NA	Water	PrecSep_0	
400-126027-23	DUP-6	Total/NA	Water	PrecSep_0	
MB 160-266443/1-A	Method Blank	Total/NA	Water	PrecSep_0	
LCS 160-266443/2-A	Lab Control Sample	Total/NA	Water	PrecSep_0	
LCSD 160-266443/3-A	Lab Control Sample Dup	Total/NA	Water	PrecSep_0	

Prep Batch: 266723

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-126027-1	FB-4	Total/NA	Water	PrecSep-21	
400-126027-2	SGWA-25	Total/NA	Water	PrecSep-21	
400-126027-3	SGWC-7	Total/NA	Water	PrecSep-21	
400-126027-4	SGWC-11	Total/NA	Water	PrecSep-21	
400-126027-5	SGWC-6	Total/NA	Water	PrecSep-21	
400-126027-6	SGWC-10	Total/NA	Water	PrecSep-21	
400-126027-7	EQB-4	Total/NA	Water	PrecSep-21	
400-126027-8	SGWA-4	Total/NA	Water	PrecSep-21	
400-126027-9	SGWC-8	Total/NA	Water	PrecSep-21	
400-126027-10	SGWC-12	Total/NA	Water	PrecSep-21	
400-126027-11	SGWC-14	Total/NA	Water	PrecSep-21	
400-126027-12	SGWC-16	Total/NA	Water	PrecSep-21	
400-126027-13	EQB-5	Total/NA	Water	PrecSep-21	
400-126027-14	DUP-5	Total/NA	Water	PrecSep-21	
400-126027-15	SGWC-13	Total/NA	Water	PrecSep-21	
400-126027-16	FB-5	Total/NA	Water	PrecSep-21	
400-126027-17	SGWC-15	Total/NA	Water	PrecSep-21	
400-126027-18	SGWC-17	Total/NA	Water	PrecSep-21	
400-126027-19	SGWC-22	Total/NA	Water	PrecSep-21	
400-126027-20	FB-6	Total/NA	Water	PrecSep-21	
MB 160-266723/1-A	Method Blank	Total/NA	Water	PrecSep-21	
LCS 160-266723/2-A	Lab Control Sample	Total/NA	Water	PrecSep-21	
LCSD 160-266723/3-A	Lab Control Sample Dup	Total/NA	Water	PrecSep-21	

Prep Batch: 266725

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-126027-1	FB-4	Total/NA	Water	PrecSep_0	
400-126027-2	SGWA-25	Total/NA	Water	PrecSep_0	
400-126027-3	SGWC-7	Total/NA	Water	PrecSep_0	
400-126027-4	SGWC-11	Total/NA	Water	PrecSep_0	
400-126027-5	SGWC-6	Total/NA	Water	PrecSep_0	
400-126027-6	SGWC-10	Total/NA	Water	PrecSep_0	
400-126027-7	EQB-4	Total/NA	Water	PrecSep_0	

TestAmerica Pensacola

QC Association Summary

Client: Southern Company
Project/Site: CCR Plant Scherer

TestAmerica Job ID: 400-126027-2
SDG: Plant Scherer

Rad (Continued)

Prep Batch: 266725 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-126027-8	SGWA-4	Total/NA	Water	PrecSep_0	
400-126027-9	SGWC-8	Total/NA	Water	PrecSep_0	
400-126027-10	SGWC-12	Total/NA	Water	PrecSep_0	
400-126027-11	SGWC-14	Total/NA	Water	PrecSep_0	
400-126027-12	SGWC-16	Total/NA	Water	PrecSep_0	
400-126027-13	EQB-5	Total/NA	Water	PrecSep_0	
400-126027-14	DUP-5	Total/NA	Water	PrecSep_0	
400-126027-15	SGWC-13	Total/NA	Water	PrecSep_0	
400-126027-16	FB-5	Total/NA	Water	PrecSep_0	
400-126027-17	SGWC-15	Total/NA	Water	PrecSep_0	
400-126027-18	SGWC-17	Total/NA	Water	PrecSep_0	
400-126027-19	SGWC-22	Total/NA	Water	PrecSep_0	
400-126027-20	FB-6	Total/NA	Water	PrecSep_0	
MB 160-266725/1-A	Method Blank	Total/NA	Water	PrecSep_0	
LCS 160-266725/2-A	Lab Control Sample	Total/NA	Water	PrecSep_0	
LCSD 160-266725/3-A	Lab Control Sample Dup	Total/NA	Water	PrecSep_0	

QC Sample Results

Client: Southern Company
Project/Site: CCR Plant Scherer

TestAmerica Job ID: 400-126027-2
SDG: Plant Scherer

Method: 9315 - Radium-226 (GFPC)

Lab Sample ID: MB 160-266442/1-A
Matrix: Water
Analysis Batch: 269970

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 266442

Analyte	MB Result	MB Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.05520	U	0.0541	0.0544	1.00	0.0854	pCi/L	08/24/16 19:56	09/15/16 07:30	1
Carrier	MB %Yield	MB Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	88.6		40 - 110					08/24/16 19:56	09/15/16 07:30	1

Lab Sample ID: LCS 160-266442/2-A
Matrix: Water
Analysis Batch: 269970

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 266442

Analyte	Spike Added	LCS Result	LCS Qual	Total Uncert. (2σ+/-)	RL	MDC	Unit	%Rec	%Rec. Limits
Radium-226	11.2	12.49		1.22	1.00	0.0739	pCi/L	112	68 - 137
Carrier	LCS %Yield	LCS Qualifier	Limits						
Ba Carrier	92.9		40 - 110						

Lab Sample ID: LCSD 160-266442/3-A
Matrix: Water
Analysis Batch: 269970

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 266442

Analyte	Spike Added	LCSD Result	LCSD Qual	Total Uncert. (2σ+/-)	RL	MDC	Unit	%Rec	%Rec. Limits	RER	RER Limit
Radium-226	11.2	13.43		1.31	1.00	0.0787	pCi/L	120	68 - 137	0.37	1
Carrier	LCSD %Yield	LCSD Qualifier	Limits								
Ba Carrier	95.7		40 - 110								

Lab Sample ID: MB 160-266723/1-A
Matrix: Water
Analysis Batch: 270279

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 266723

Analyte	MB Result	MB Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.3072	U	0.245	0.247	1.00	0.377	pCi/L	08/25/16 19:30	09/16/16 20:18	1
Carrier	MB %Yield	MB Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	59.0		40 - 110					08/25/16 19:30	09/16/16 20:18	1

Lab Sample ID: LCS 160-266723/2-A
Matrix: Water
Analysis Batch: 270415

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 266723

Analyte	Spike Added	LCS Result	LCS Qual	Total Uncert. (2σ+/-)	RL	MDC	Unit	%Rec	%Rec. Limits
Radium-226	11.2	14.89		1.57	1.00	0.186	pCi/L	133	68 - 137

TestAmerica Pensacola

QC Sample Results

Client: Southern Company
Project/Site: CCR Plant Scherer

TestAmerica Job ID: 400-126027-2
SDG: Plant Scherer

Method: 9315 - Radium-226 (GFPC) (Continued)

Lab Sample ID: LCS 160-266723/2-A
Matrix: Water
Analysis Batch: 270415

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 266723

Carrier	LCS %Yield	LCS Qualifier	Limits
Ba Carrier	45.9		40 - 110

Lab Sample ID: LCSD 160-266723/3-A
Matrix: Water
Analysis Batch: 270415

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 266723

Analyte	Spike Added	LCSD Result	LCSD Qual	Total Uncert. (2σ+/-)	RL	MDC	Unit	%Rec	%Rec. Limits	RER	RER Limit
Radium-226	11.2	14.06		1.51	1.00	0.200	pCi/L	126	68 - 137	0.27	1

Carrier	LCSD %Yield	LCSD Qualifier	Limits
Ba Carrier	42.5		40 - 110

Method: 9320 - Radium-228 (GFPC)

Lab Sample ID: MB 160-266443/1-A
Matrix: Water
Analysis Batch: 268735

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 266443

Analyte	MB Result	MB Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	-0.05255	U	0.263	0.263	1.00	0.478	pCi/L	08/24/16 20:20	09/09/16 13:57	1

Carrier	MB %Yield	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
Ba Carrier	88.6		40 - 110	08/24/16 20:20	09/09/16 13:57	1
Y Carrier	83.4		40 - 110	08/24/16 20:20	09/09/16 13:57	1

Lab Sample ID: LCS 160-266443/2-A
Matrix: Water
Analysis Batch: 268735

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 266443

Analyte	Spike Added	LCS Result	LCS Qual	Total Uncert. (2σ+/-)	RL	MDC	Unit	%Rec	%Rec. Limits
Radium-228	14.6	16.64		1.79	1.00	0.443	pCi/L	114	56 - 140

Carrier	LCS %Yield	LCS Qualifier	Limits
Ba Carrier	92.9		40 - 110
Y Carrier	82.6		40 - 110

Lab Sample ID: LCSD 160-266443/3-A
Matrix: Water
Analysis Batch: 268735

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 266443

Analyte	Spike Added	LCSD Result	LCSD Qual	Total Uncert. (2σ+/-)	RL	MDC	Unit	%Rec	%Rec. Limits	RER	RER Limit
Radium-228	14.6	15.19		1.63	1.00	0.391	pCi/L	104	56 - 140	0.42	1

TestAmerica Pensacola

QC Sample Results

Client: Southern Company
Project/Site: CCR Plant Scherer

TestAmerica Job ID: 400-126027-2
SDG: Plant Scherer

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

Lab Sample ID: LCSD 160-266443/3-A
Matrix: Water
Analysis Batch: 268735

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 266443

Carrier	LCSD %Yield	LCSD Qualifier	Limits
Ba Carrier	95.7		40 - 110
Y Carrier	91.6		40 - 110

Lab Sample ID: MB 160-266725/1-A
Matrix: Water
Analysis Batch: 270279

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 266725

Analyte	MB Result	MB Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.2551	U	0.408	0.409	1.00	0.688	pCi/L	08/25/16 20:13	09/16/16 13:43	1

Carrier	MB %Yield	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
Ba Carrier	59.0		40 - 110	08/25/16 20:13	09/16/16 13:43	1
Y Carrier	81.9		40 - 110	08/25/16 20:13	09/16/16 13:43	1

Lab Sample ID: LCS 160-266725/2-A
Matrix: Water
Analysis Batch: 270279

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 266725

Analyte	Spike Added	LCS Result	LCS Qual	Total Uncert. (2σ+/-)	RL	MDC	Unit	%Rec	%Rec. Limits
Radium-228	14.6	16.51		2.01	1.00	0.763	pCi/L	113	56 - 140

Carrier	LCS %Yield	LCS Qualifier	Limits
Ba Carrier	45.9		40 - 110
Y Carrier	87.9		40 - 110

Lab Sample ID: LCSD 160-266725/3-A
Matrix: Water
Analysis Batch: 270279

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 266725

Analyte	Spike Added	LCSD Result	LCSD Qual	Total Uncert. (2σ+/-)	RL	MDC	Unit	%Rec	%Rec. Limits	RER	RER Limit
Radium-228	14.6	13.85		1.79	1.00	0.782	pCi/L	95	56 - 140	0.70	1

Carrier	LCSD %Yield	LCSD Qualifier	Limits
Ba Carrier	42.5		40 - 110
Y Carrier	88.2		40 - 110

TestAmerica Pensacola
 3355 McLemore Drive
 Pensacola, FL 32514
 Phone (850) 474-1001 Fax (850) 478-2671


Chain of Custody Record

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Client Information
 Client Contact: Joju Abraham
 Company: Southern Company
 Address: 241 Ralph McGill Blvd SE B10185
 City: Atlanta
 State, Zip: GA, 30308
 Phone: 404-506-7239
 Email: JAbraham@southemco.com
 Project #: 40007041
 CCR - Scherer
 Site: *Plant Scherer*

Sampler: *Ron Hilliard*
 Lab PIV: Whitmore, Cheyenne R
 Phone: *770-315-9696*
 E-Mail: cheyenne.whitmore@testamericainc.com

Carrier Tracking No(s):
 COC No: 400-57303-24790.7
 Page:
 Job #: *126027*

Analysis Requested

 400-126027 COC
 TDS - SM 2540C; Cl,F,S04 - EPA 300
 Metals Appendix III & IV - EPA 6020 & EPA 7470
 Radium 226 & 228 - SW-946 9316 & 9320

Sample Identification

Sample ID	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=soil, BT=Tissue, A=Air)	Right Filtered Sample (Yes or No)	Performance MS/MSD (Yes or No)	I	D	D	Total Number of Containers	Special Instructions/Note
FB-4	8/17/16	09:08 G	G	Water	X		1	1	1	3	
SGWA-05	8/17/16	09:46 G	G	Water			1	1	1	3	
SGWC-7	8/17/16	11:25 G	G	Water			1	1	1	3	
SGWC-11	8/17/16	14:45 G	G	Water			1	1	1	3	
				Water							
				Water							
				Water							
				Water							
				Water							
				Water							
				Water							
				Water							
				Water							

Preservation Codes:
 M - Hexane
 N - None
 O - AsNaO2
 P - Na2O4S
 Q - Na2SO3
 R - Na2SO3
 S - H2SO4
 G - Amchlor
 H - Ascorbic Acid
 I - Ice
 J - DI Water
 U - Acetone
 V - MCAA
 W - ph 4-5
 L - EDTA
 Z - other (specify)

Special Instructions/Note:

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

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

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

Special Instructions/QC Requirements:

Empty Kit Relinquished by: _____ Date: _____ Method of Shipment: _____
 Relinquished by: *R Hilliard* Date/Time: *8/17/16 17:30* Company: *SC*
 Relinquished by: _____ Date/Time: _____ Company: _____
 Relinquished by: _____ Date/Time: _____ Company: _____

Custody Seal No.: _____ Custody Seal No.:
 A Yes A No

Other Remarks:
1192 Spec 0102 of 6 1/8/16

Chain of Custody Record



Client Information				Analysis Requested			
Sampler: <i>Miranda Steffler</i>		Lab P/N: Whitmire, Cheyenne R		Camera Tracking No(s):		COC No: 400-57303-24790.7	
Phone: <i>(239) 338-8022</i>		E-Mail: cheyenne.whitmire@testamericainc.com				Page:	
Southern Company				Job #: <i>126027</i>			
Address: 241 Ralph McGill Blvd SE B10185				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 Other:			
City: Atlanta				Total Number of Containers			
State, Zip: GA, 30308				Metals Appendix III & IV - EPA 6020 & EPA 7470 TDS - SM 2540C : Cl, F, SO4 - EPA 300 Radium 226 & 228 - SW-846 9315 & 9320			
PO #: GPC10624814				Special Instructions/Note:			
WO #:							
Project #: 40007041							
CCR - Scherer							
Site: <i>Plant Scherer</i>							
Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water, S=solid, O=wastewater, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Particulate MS/MSD (Yes or No)	D
SGWC-6	8-17-16	1140	G	Water			3
SGWC-10	8-17-16	1415	G	Water			3
EQB-4	8-17-16	1545	G	Water			3
				Water			
				Water			
				Water			
				Water			
				Water			
				Water			
				Water			
				Water			

Possible Hazard Identification <input checked="" type="checkbox"/> Non-Hazard <input type="checkbox"/> Flammable <input type="checkbox"/> Skin Irritant <input type="checkbox"/> Poison B <input type="checkbox"/> Unknown <input type="checkbox"/> Radiological		Sample Disposal (A fee may be assessed if samples are retained longer than 1 month) <input type="checkbox"/> Return To Client <input checked="" type="checkbox"/> Disposal By Lab <input type="checkbox"/> Archive For _____ Months
Deliverable Requested: I, II, III, IV, Other (specify)		
Empty Kit Relinquished by: _____		
Relinquished by: <i>Miranda Steffler</i> Date/Time: 8-17-16 1730	Received by: <i>Adam</i> Date/Time: 8-17-16	Method of Shipment: _____ Company: UPS
Relinquished by: _____ Date/Time: _____	Received by: <i>[Signature]</i> Date/Time: 8/18/16 1007	Company: TAPO
Relinquished by: _____ Date/Time: _____	Received by: _____ Date/Time: _____	Company: _____
Custody Seals Intact: _____ Custody Seal No.: _____ Δ Yes Δ No		



TestAmerica Pensacola

3355 McLemore Drive
Pensacola, FL 32514
Phone (850) 474-1001 Fax (850) 478-2671

Chain of Custody Record



Client Information

Southern Company

Address: 241 Ralph McGill Blvd SE B10185

City: Atlanta

State, Zip: GA, 30308

Phone: 404-506-7239

Email: JAbraham@southemco.com

Project #: 40007041

Site: *Plant Scherer*

Sampler: *Charles Whitson*

Phone: 404 273 7689

Lab PW: Whitmire, Cheyenne R

E-Mail: cheyenne.whitmire@testamericainc.com

Carrier Tracking No(s):

COC No: 400-57303-24790.7

Page:

Job #: *126027*

Analysis Requested

TDS - SM 2540C ; Cl, F, SO4 - EPA 300

Metals Appendix III & IV - EPA 6020 & EPA 7470

Radium 226 & 228 - SW-846 9316 & 9320

Preservation Codes:

- M - Hexane
- N - None
- O - AsNaO2
- P - Na2O4S
- Q - Na2SO3
- R - Na2SO3
- S - H2SO4
- T - TSP Dodecahydrate
- U - Acetone
- V - MCAA
- W - ph 4-5
- X - EDTA
- Y - EDA
- Z - other (specify)

Sample Identification	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=wastebill, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)		Patron MSHSD (Yes or No)		Special Instructions/Note	
					Sample Date	Sample Time	Sample Date	Sample Time	Special Instructions/Note	Special Instructions/Note
<i>SGWA-4</i>	<i>8/17/16</i>	<i>1049</i>	<i>G</i>	Water	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<i>3</i>	
<i>SGWC-8</i>	<i>8/17/16</i>	<i>1414</i>	<i>G</i>	Water	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<i>3</i>	

Possible Hazard Identification

Non-Hazard Flammable Skin Irritant Poison B Unknown Radiological

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

Empty Kit Relinquished by: _____ Date: _____

Relinquished by: *[Signature]* Date: *8/17/16 1730*

Relinquished by: _____ Date: _____

Relinquished by: _____ Date: _____

Custody Seals Intact: Yes No Custody Seal No.:

Special Instructions/QC Requirements: _____

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)

Return To Client Disposal By Lab Archive For _____ Months

Method of Shipment: _____

Received by: *[Signature]* Date/Time: *8/17/16 1730*

Company: *AECOM*

Received by: *[Signature]* Date/Time: *8/19/16 1007*

Company: *TAFER*

Received by: _____ Date/Time: _____

Company: _____

Cooler Temperature(s) °C and Other Remarks: *1.90°C, 0.00°C, 1.8°C, 1.8°C*



Chain of Custody Record

Client Information		Sample Information		Lab PVI:		Carrier Tracking No(s):		COC No:						
Client Contact: Joju Abraham		Kous Hilliard		Whitnire, Cheyenne R				400-57303-24790.8						
Company: Southern Company		770-315-9696		E-Mail: cheyenne.whitnire@testamericainc.com				Page:						
Address: 241 Ralph McGill Blvd SE B10185		Due Date Requested:		Analysis Requested		Total Number of Containers		Preservation Codes:						
City: Atlanta		TAT Requested (days):		Standard JAT		400-126027 COC		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 Other:						
State, Zip: GA, 30308		PO #: GPC-10624814		Project #: 40007041		Metals Appendix III & IV - EPA 6020 & EPA 7470		M - Hexane N - None O - AsNaO2 P - Na2O4S Q - Na2SO3 R - Na2SO3 S - H2SO4 T - TSP Dodecahydrate U - Acetone V - MCAA W - ph 4-5 Z - other (specify)						
Phone: 404-506-7239		WO #:		SSOW#:		TTS - SM 2640C : Cl, F, SO4 - EPA 300		Special Instructions/Note:						
Email: JAbraham@southernco.com		Project #: 40007041		SSOW#:		Field Filtered Sample (Yes or No)								
Project Name: CCR - Scherer		Site: Plant Scherer		SSOW#:		Perform MSMSD (Yes or No)								
Site: Plant Scherer		SSOW#:		SSOW#:		Radium 226 & 228 - SW-846 9315 & 9320								
Sample Identification	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=soil, BT=tissue, A=air)	Field Filtered Sample (Yes or No)	Perform MSMSD (Yes or No)	Metals Appendix III & IV - EPA 6020 & EPA 7470	TTS - SM 2640C : Cl, F, SO4 - EPA 300	Metals Appendix III & IV - EPA 6020 & EPA 7470	Radium 226 & 228 - SW-846 9315 & 9320	Analysis Requested	Carrier Tracking No(s):	COC No:	
56WC-12	8/18/16	09:01	G	Water	X	X	1	1	1	1				
56WC-14	8/18/16	11:01	G	Water	X	X	1	1	1	1				
56WC-16	8/18/16	13:42	G	Water	X	X	1	1	1	1				
EQB-5	8/18/16	14:47	G	Water	X	X	1	1	1	1				
DUP-5	8/18/16	-	G	Water	X	X	1	1	1	1				
				Water										
				Water										
				Water										
				Water										
				Water										
				Water										
Possible Hazard Identification <input checked="" type="checkbox"/> Non-Hazard <input type="checkbox"/> Flammable <input type="checkbox"/> Skin Irritant <input type="checkbox"/> Poison B <input type="checkbox"/> Unknown <input type="checkbox"/> Radiological														
Deliverable Requested: I, II, III, IV, Other (specify)														
Empty Kit Relinquished by: _____ Date: _____														
Relinquished by: <i>LOHOLL</i> Date: 8/18/16 18:00 Company: AECOM														
Relinquished by: _____ Date: _____ Company: _____														
Relinquished by: _____ Date: _____ Company: _____														
Custody Seals Intact: _____ Custody Seal No.: _____ <input type="checkbox"/> Yes <input type="checkbox"/> No														
Cooler Temperature(s) °C and Other Remarks: 1.2°C 3.1°C 0.1°C														



TestAmerica Pensacola
 3355 McLemore Drive
 Pensacola, FL 32514
 Phone (850) 474-1001 Fax (850) 478-2671

Chain of Custody Record



Client Information
 Client Contact: Jolu Abraham
 Company: Southern Company
 Address: 241 Ralph McGill Blvd SE B10185
 City: Atlanta
 State, Zip: GA, 30308
 Phone: 404-506-7239
 Email: JAbraham@southernco.com
 Project #: 40007041
 CCR - Scherer
 Site: *Plant Scherer*

Sampler: *Charles Watson*
 Lab PM: Whitmore, Cheyenne R
 Phone: *404 273 7689* E-Mail: cheyenne.whitmore@testamericainc.com
 Carrier Tracking No(s):
 COC No: 400-57303-24790.8
 Page:
 Job #:

Due Date Requested:
 TAT Requested (days): *Standard TAT*

Analysis Requested

Sample Identification	Sample Date	Sample Time	Sample Type (C-Comp, G-grab)	Matrix (W-water, S-solid, O-waste/soil, BT=TISSUE, A=Air)	Field Filtered Sample (Yes or No)	Priority (MSMD Type or No)	Metals Appendix III & IV - EPA 6020 & EPA 7470				Total Number of Containers	Special Instructions/Note:
							TDS - SM 2540C; Cl, F, SO4 - EPA 300	Radium 226 & 228 - SW-846 9315 & 9320				
<i>SGWC-13</i>	<i>8/18/16</i>	<i>0845</i>	<i>G</i>	Water			<i>I</i>	<i>D</i>	<i>D</i>	<i>3</i>		
<i>FB-5</i>	<i>8/18/16</i>	<i>0915</i>	<i>G</i>	Water			<i>I</i>	<i>D</i>	<i>D</i>	<i>3</i>		
<i>SGWC-15</i>	<i>8/18/16</i>	<i>1120</i>	<i>G</i>	Water			<i>I</i>	<i>D</i>	<i>D</i>	<i>3</i>		
<i>SGWC-17</i>	<i>8/18/16</i>	<i>1347</i>	<i>G</i>	Water			<i>I</i>	<i>D</i>	<i>D</i>	<i>3</i>		
				Water								
				Water								
				Water								
				Water								
				Water								
				Water								
				Water								
				Water								

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

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

Empty Kit Relinquished by: _____ Date: _____

Relinquished by: *Charles Watson* Date: *8/18/16 1800* Company: *AECOM*

Relinquished by: _____ Date: _____ Company: _____

Relinquished by: _____ Date: _____ Company: _____

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

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

Special Instructions/QC Requirements:

Method of Shipment: _____

Received by: *UPS* Date/Time: *5/7/7* Company: _____
 Received by: _____ Date/Time: _____ Company: _____
 Received by: *SPD* Date/Time: *8/19/16 1015* Company: *FA*

Cooler Temperature(s) °C and Other Remarks: *1.2°C 3.1°C 0.1°C*



Chain of Custody Record


TestAmerica Pensacola
3355 McLemore Drive
Pensacola, FL 32514
Phone (850) 474-1001 Fax (850) 478-2671

Client Information		Sampler: Row Willard		Lab PM: Whitmore, Cheyenne R		Center Tracking No(s): 6546 8385 8990		COC No: 400-57303-24790.9	
Client Contact: Johu Abraham		Phone: 770-315-9696		E-Mail: cheyenne.whitmore@testamericainc.com		Job #:		Page:	
Company: Southern Company		Due Date Requested:		Analysis Requested					
Address: 241 Ralph McGill Blvd SE B 10185		TAT Requested (days):							
City: Atlanta		Standard TAT							
State, Zip: GA, 30308		PO #:							
Phone: 404-506-7239		WO #:							
Email: JAbraham@southernco.com		Project #:							
Project Name: Plant Scherer		CCR - Scherer							
Site: Plant Scherer		SSOW#:							

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water, S=solid, O=wast/ool, M=tissue, A=air)	Field Filtered Sample (Yes or No)	Performance (MSD Yes or No)	TDS - SM 2540C: Cl.F.S04 - EPA 300	Metals Appendix III & IV - EPA 6020 & EPA 7470	Radium 226 & 228 - SW-846 9315 & 9320	Total Number of Containers	Special Instructions/Note:
SGWC-22	8/19/16	0833	G	Water	X	X				3	
FB-6	8/19/16	0853	G	Water	X	X				3	
EQB-6	8/19/16	0845	G	Water	X	X				3	
				Water							
				Water							
				Water							
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				Water							
				Water							

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
 Other:

M - Hexane
 N - None
 O - AsNaO2
 P - Na2OAS
 Q - Na2SO3
 R - Na2SO4
 S - H2SO4
 T - TSP Dodecahydrate
 U - Acetone
 V - NCAAA
 W - pH 4-5
 Z - other (specify)

Special Instructions/Note:

 400-126027 COC

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

Special Instructions/QC Requirements:



TestAmerica Pensacola
 3355 McLemore Drive
 Pensacola, FL 32514
 Phone (850) 474-1001 Fax (850) 478-2671

Chain of Custody Record



Client Information		Address: 241 Ralph McGill Blvd SE B10185 City: Atlanta State, Zip: GA, 30308 Phone: 404-506-7238 Email: JAbraham@southerncco.com	Project Name: CCR - Scherer Site: <i>Plant Scherer</i>	Lab Pmt: Whitmire, Chyenne R E-Mail: chyenne.witmire@testamericainc.com	Carrier Tracking No(s):	COC No: 400-57303-24790.9 Page: Job #:											
Client Contact: Charles Watson Phone: 404 273 7689		Due Date Requested: TAT Requested (days): <i>Standards TAT</i>	PO #: GPC10624814 WO #: Project #: 40007041 SSOW#:	Sample Date: 8/19/16	Sample Time: 0758	Sample Type (C=Comp, G=grab): G	Matrix (W=water, S=solid, O=wastewater, BT=Tissue, A=Air): Water	Field Filtered Sample (Yes or No):	Performance MS/MSD (Yes or No):	TTS - SM 2640C; Cl.F.S04 - EPA 300	Metals Appendix III & IV - EPA 6020 & EPA 7470	Radium 226 & 228 - SW-846 9315 & 9320	Analysis Requested:	Preservation Codes: A - HCL B - NaOH C - Zn Acetate D - Nitric Acid E - NaHSO4 F - MeOH G - Anchlor H - Ascorbic Acid I - Ice J - DI Water K - EDTA L - EDA Other: M - Hexane N - None O - AsNaO2 P - Na2O4S Q - Na2SO3 R - Na2S2O3 S - H2SO4 T - TSP Dodecathylate U - Acetone V - MCAA W - ph 4-5 Z - other (specify)	Special Instructions/Note: Total Number of containers: 3		
Sample Identification		SGWC-23 DUP-6		8/19/16	0758	G	Water										
Possible Hazard Identification		<input checked="" type="checkbox"/> Non-Hazard <input type="checkbox"/> Flammable <input type="checkbox"/> Skin Irritant <input type="checkbox"/> Poison B <input type="checkbox"/> Unknown <input type="checkbox"/> Radiological															
Deliverable Requested: I, II, III, IV, Other (specify)																	
Empty Kit Relinquished by:																	
Relinquished by:		<i>[Signature]</i>		Date/Time: 8/19/16 14:40		Company: AECOM											
Relinquished by:				Date/Time:		Company:											
Relinquished by:				Date/Time:		Company:											
Custody Seals Intact:		Δ Yes Δ No		Custody Seal No.:													
Special Disposal (A fee may be assessed if samples are retained longer than 1 month)		<input type="checkbox"/> Return To Client <input checked="" type="checkbox"/> Disposal By Lab <input type="checkbox"/> Archive For _____ Months															
Special Instructions/QC Requirements:																	
Method of Shipment:																	
Received by:		<i>[Signature]</i>		Date/Time: 8/20/16 8:56		Company: TR											
Received by:				Date/Time:		Company:											
Received by:				Date/Time:		Company:											
Cooler Temperature(s) °C and Other Remarks:		0.0°C		IRS													



Login Sample Receipt Checklist

Client: Southern Company

Job Number: 400-126027-2

SDG Number: Plant Scherer

Login Number: 126027

List Number: 1

Creator: Whitmire, Cheyenne R

List Source: TestAmerica 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	1.9°C, 0.0°C, 1.8°C IR6 1.2°C, 3.1°C, 0.1°C, 1.4°C, 0.0°C IR-5
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	

Certification Summary

Client: Southern Company
Project/Site: CCR Plant Scherer

TestAmerica Job ID: 400-126027-2
SDG: Plant Scherer

Laboratory: TestAmerica Pensacola

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

Authority	Program	EPA Region	Certification ID	Expiration Date
Alabama	State Program	4	40150	06-30-17
Arizona	State Program	9	AZ0710	01-11-17
Arkansas DEQ	State Program	6	88-0689	09-01-16 *
California	ELAP	9	2510	03-31-18
Florida	NELAP	4	E81010	06-30-17
Georgia	State Program	4	N/A	06-30-17
Illinois	NELAP	5	200041	10-09-16
Iowa	State Program	7	367	07-31-16 *
Kansas	NELAP	7	E-10253	10-31-16
Kentucky (UST)	State Program	4	53	06-30-17
Kentucky (WW)	State Program	4	98030	12-31-16
Louisiana	NELAP	6	30976	06-30-17
Maryland	State Program	3	233	09-30-17
Massachusetts	State Program	1	M-FL094	06-30-17
Michigan	State Program	5	9912	05-06-17
New Jersey	NELAP	2	FL006	06-30-17
North Carolina (WW/SW)	State Program	4	314	12-31-16
Oklahoma	State Program	6	9810	08-31-17
Pennsylvania	NELAP	3	68-00467	01-31-17
Rhode Island	State Program	1	LAO00307	12-30-16
South Carolina	State Program	4	96026	06-30-16 *
Tennessee	State Program	4	TN02907	06-30-17
Texas	NELAP	6	T104704286-16-10	09-30-17
USDA	Federal		P330-16-00172	05-24-19
Virginia	NELAP	3	460166	06-14-17
Washington	State Program	10	C915	05-15-17
West Virginia DEP	State Program	3	136	08-31-16 *

Laboratory: TestAmerica St. Louis

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

Authority	Program	EPA Region	Certification ID	Expiration Date
Alaska	State Program	10	MO00054	06-30-17
California	State Program	9	2886	03-31-18
Connecticut	State Program	1	PH-0241	03-31-17
Florida	NELAP	4	E87689	06-30-17
Illinois	NELAP	5	003757	11-30-16 *
Iowa	State Program	7	373	12-01-16 *
Kansas	NELAP	7	E-10236	10-31-16 *
Kentucky (DW)	State Program	4	90125	12-31-16
L-A-B	DoD ELAP		L2305	04-06-19
Louisiana	NELAP	6	04080	06-30-17
Louisiana (DW)	NELAP	6	LA160008	12-31-16
Maryland	State Program	3	310	09-30-17
Missouri	State Program	7	780	06-30-17
Nevada	State Program	9	MO000542016-1	07-31-17
New Jersey	NELAP	2	MO002	06-30-17
New York	NELAP	2	11616	03-31-17
North Dakota	State Program	8	R207	06-30-17
NRC	NRC		24-24817-01	12-31-22

* Certification renewal pending - certification considered valid.

TestAmerica Pensacola

Certification Summary

Client: Southern Company
Project/Site: CCR Plant Scherer

TestAmerica Job ID: 400-126027-2
SDG: Plant Scherer

Laboratory: TestAmerica St. Louis (Continued)

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

Authority	Program	EPA Region	Certification ID	Expiration Date
Oklahoma	State Program	6	9997	08-31-17
Pennsylvania	NELAP	3	68-00540	02-28-17 *
South Carolina	State Program	4	85002001	06-30-16 *
Texas	NELAP	6	T104704193-15-9	07-31-17
USDA	Federal		P330-07-00122	01-09-17
Utah	NELAP	8	MO000542016-8	07-31-17
Virginia	NELAP	3	460230	06-14-17
Washington	State Program	10	C592	08-30-17
West Virginia DEP	State Program	3	381	08-31-16 *

* Certification renewal pending - certification considered valid.

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

TestAmerica Laboratories, Inc.

TestAmerica Pensacola

3355 McLemore Drive

Pensacola, FL 32514

Tel: (850)474-1001

TestAmerica Job ID: 400-126207-1

Client Project/Site: CCR Plant Scherer

For:


Southern Company

241 Ralph McGill Blvd SE

B10185

Atlanta, Georgia 30308

Attn: Joju Abraham



Authorized for release by:

9/11/2016 7:16:24 PM

Cheyenne Whitmire, Project Manager II

(850)471-6222

cheyenne.whitmire@testamericainc.com

LINKS

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The test results in this report meet all 2003 NELAC and 2009 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.

1

2

3

4

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6

7

8

9

10

11

12

13

14



Table of Contents

Cover Page	1
Table of Contents	2
Case Narrative	3
Detection Summary	4
Method Summary	6
Sample Summary	7
Client Sample Results	8
Definitions	13
Chronicle	14
QC Association	16
QC Sample Results	19
Chain of Custody	25
Receipt Checklists	26
Certification Summary	27

Case Narrative

Client: Southern Company
Project/Site: CCR Plant Scherer

TestAmerica Job ID: 400-126207-1

Job ID: 400-126207-1

Laboratory: TestAmerica Pensacola

Narrative

Job Narrative 400-126207-1

HPLC/IC

Method(s) 300.0: The LCSD failed to inject properly and failed low, however an MS/MSD were ran on another sample and recovered within passing criteria; therefore the data is reported.

Method(s) 300.0: The following samples were diluted to bring the concentration of target analytes within the calibration range: SGWC-21 (400-126207-1), SGWC-20 (400-126207-2), SGWC-9 (400-126207-3), DUP-7 (400-126207-5), (400-126207-A-1 MS) and (400-126207-A-1 MSD). Elevated reporting limits (RLs) are provided.

Method(s) 300.0: The following samples were diluted to bring the concentration of target analytes within the calibration range: SGWC-20 (400-126207-2) and SGWC-9 (400-126207-3). Elevated reporting limits (RLs) are provided.

Method(s) 300.0: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for analytical batch 321486 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.

Metals

Method(s) 6020: The following samples were diluted to bring the concentration of target analytes within the calibration range: SGWC-9 (400-126207-3) and DUP-7 (400-126207-5). Elevated reporting limits (RLs) are provided.

Detection Summary

Client: Southern Company
Project/Site: CCR Plant Scherer

TestAmerica Job ID: 400-126207-1

Client Sample ID: SGWC-21

Lab Sample ID: 400-126207-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chloride	7.9	*	1.0	0.89	mg/L	1		300.0	Total/NA
Fluoride	0.083	J *	0.20	0.082	mg/L	1		300.0	Total/NA
Sulfate	78		5.0	3.5	mg/L	5		300.0	Total/NA
Barium	0.086		0.0025	0.00049	mg/L	5		6020	Total Recoverable
Boron	1.3		0.25	0.11	mg/L	25		6020	Total Recoverable
Calcium	30		0.25	0.13	mg/L	5		6020	Total Recoverable
Total Dissolved Solids	390		5.0	3.4	mg/L	1		SM 2540C	Total/NA

Client Sample ID: SGWC-20

Lab Sample ID: 400-126207-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chloride	11	*	1.0	0.89	mg/L	1		300.0	Total/NA
Fluoride	0.33	*	0.20	0.082	mg/L	1		300.0	Total/NA
Sulfate	270		25	18	mg/L	25		300.0	Total/NA
Arsenic	0.0010	J	0.0013	0.00046	mg/L	5		6020	Total Recoverable
Barium	0.038		0.0025	0.00049	mg/L	5		6020	Total Recoverable
Beryllium	0.00074	J	0.0025	0.00034	mg/L	5		6020	Total Recoverable
Boron	2.0		0.25	0.11	mg/L	25		6020	Total Recoverable
Calcium	15		0.25	0.13	mg/L	5		6020	Total Recoverable
Cobalt	0.25		0.0025	0.00040	mg/L	5		6020	Total Recoverable
Lithium	0.0051		0.0050	0.0032	mg/L	5		6020	Total Recoverable
Selenium	0.0012	J	0.0013	0.00024	mg/L	5		6020	Total Recoverable
Thallium	0.00018	J	0.00050	0.000085	mg/L	5		6020	Total Recoverable
Mercury	0.000073	J	0.00020	0.000070	mg/L	1		7470A	Total/NA
Total Dissolved Solids	290		5.0	3.4	mg/L	1		SM 2540C	Total/NA

Client Sample ID: SGWC-9

Lab Sample ID: 400-126207-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chloride	9.7	*	1.0	0.89	mg/L	1		300.0	Total/NA
Sulfate	300		25	18	mg/L	25		300.0	Total/NA
Barium	0.049		0.0025	0.00049	mg/L	5		6020	Total Recoverable
Cobalt	0.017		0.0025	0.00040	mg/L	5		6020	Total Recoverable
Molybdenum	0.00099	J	0.015	0.00085	mg/L	5		6020	Total Recoverable
Calcium - DL	57		1.3	0.63	mg/L	25		6020	Total Recoverable
Boron - RADL	1.6		0.25	0.11	mg/L	25		6020	Total Recoverable
Total Dissolved Solids	500		5.0	3.4	mg/L	1		SM 2540C	Total/NA

This Detection Summary does not include radiochemical test results.

TestAmerica Pensacola

Detection Summary

Client: Southern Company
Project/Site: CCR Plant Scherer

TestAmerica Job ID: 400-126207-1

Client Sample ID: FB-7

Lab Sample ID: 400-126207-4

No Detections.

Client Sample ID: DUP-7

Lab Sample ID: 400-126207-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chloride	8.0	*	1.0	0.89	mg/L	1		300.0	Total/NA
Fluoride	0.084	J *	0.20	0.082	mg/L	1		300.0	Total/NA
Sulfate	77		5.0	3.5	mg/L	5		300.0	Total/NA
Barium	0.086		0.0025	0.00049	mg/L	5		6020	Total Recoverable
Calcium	30		0.25	0.13	mg/L	5		6020	Total Recoverable
Boron - RADL	1.3		0.25	0.11	mg/L	25		6020	Total Recoverable
Total Dissolved Solids	310		5.0	3.4	mg/L	1		SM 2540C	Total/NA

This Detection Summary does not include radiochemical test results.

TestAmerica Pensacola

Method Summary

Client: Southern Company
Project/Site: CCR Plant Scherer

TestAmerica Job ID: 400-126207-1

Method	Method Description	Protocol	Laboratory
300.0	Anions, Ion Chromatography	MCAWW	TAL PEN
6020	Metals (ICP/MS)	SW846	TAL PEN
7470A	Mercury (CVAA)	SW846	TAL PEN
SM 2540C	Solids, Total Dissolved (TDS)	SM	TAL PEN

Protocol References:

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:

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

Sample Summary

Client: Southern Company
Project/Site: CCR Plant Scherer

TestAmerica Job ID: 400-126207-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
400-126207-1	SGWC-21	Water	08/22/16 10:25	08/23/16 09:22
400-126207-2	SGWC-20	Water	08/22/16 12:54	08/23/16 09:22
400-126207-3	SGWC-9	Water	08/22/16 14:56	08/23/16 09:22
400-126207-4	FB-7	Water	08/22/16 15:08	08/23/16 09:22
400-126207-5	DUP-7	Water	08/22/16 00:00	08/23/16 09:22

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

Client Sample Results

Client: Southern Company
Project/Site: CCR Plant Scherer

TestAmerica Job ID: 400-126207-1

Client Sample ID: SGWC-21

Lab Sample ID: 400-126207-1

Date Collected: 08/22/16 10:25

Matrix: Water

Date Received: 08/23/16 09:22

Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	7.9	*	1.0	0.89	mg/L			09/01/16 07:04	1
Fluoride	0.083	J *	0.20	0.082	mg/L			09/01/16 07:04	1
Sulfate	78		5.0	3.5	mg/L			09/01/16 18:07	5

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0010		0.0025	0.0010	mg/L		08/27/16 11:31	08/29/16 21:13	5
Arsenic	<0.00046		0.0013	0.00046	mg/L		08/27/16 11:31	08/29/16 21:13	5
Barium	0.086		0.0025	0.00049	mg/L		08/27/16 11:31	08/29/16 21:13	5
Beryllium	<0.00034		0.0025	0.00034	mg/L		08/27/16 11:31	08/29/16 21:13	5
Boron	1.3		0.25	0.11	mg/L		08/27/16 11:31	08/30/16 15:26	25
Cadmium	<0.00034		0.0025	0.00034	mg/L		08/27/16 11:31	08/29/16 21:13	5
Calcium	30		0.25	0.13	mg/L		08/27/16 11:31	08/29/16 21:13	5
Chromium	<0.0011		0.0025	0.0011	mg/L		08/27/16 11:31	08/29/16 21:13	5
Cobalt	<0.00040		0.0025	0.00040	mg/L		08/27/16 11:31	08/29/16 21:13	5
Lead	<0.00035		0.0013	0.00035	mg/L		08/27/16 11:31	08/29/16 21:13	5
Lithium	<0.0032		0.0050	0.0032	mg/L		08/27/16 11:31	08/29/16 21:13	5
Molybdenum	<0.00085		0.015	0.00085	mg/L		08/27/16 11:31	08/29/16 21:13	5
Selenium	<0.00024		0.0013	0.00024	mg/L		08/27/16 11:31	08/29/16 21:13	5
Thallium	<0.000085		0.00050	0.000085	mg/L		08/27/16 11:31	08/29/16 21:13	5

Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.000070		0.00020	0.000070	mg/L		08/25/16 12:10	08/26/16 14:10	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	390		5.0	3.4	mg/L			08/27/16 15:23	1

Client Sample Results

Client: Southern Company
Project/Site: CCR Plant Scherer

TestAmerica Job ID: 400-126207-1

Client Sample ID: SGWC-20

Lab Sample ID: 400-126207-2

Date Collected: 08/22/16 12:54

Matrix: Water

Date Received: 08/23/16 09:22

Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	11	*	1.0	0.89	mg/L			09/01/16 07:26	1
Fluoride	0.33	*	0.20	0.082	mg/L			09/01/16 07:26	1
Sulfate	270		25	18	mg/L			09/02/16 18:15	25

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0010		0.0025	0.0010	mg/L		08/27/16 11:31	08/29/16 20:37	5
Arsenic	0.0010	J	0.0013	0.00046	mg/L		08/27/16 11:31	08/29/16 20:37	5
Barium	0.038		0.0025	0.00049	mg/L		08/27/16 11:31	08/29/16 20:37	5
Beryllium	0.00074	J	0.0025	0.00034	mg/L		08/27/16 11:31	08/29/16 20:37	5
Boron	2.0		0.25	0.11	mg/L		08/27/16 11:31	08/30/16 15:21	25
Cadmium	<0.00034		0.0025	0.00034	mg/L		08/27/16 11:31	08/29/16 20:37	5
Calcium	15		0.25	0.13	mg/L		08/27/16 11:31	08/29/16 20:37	5
Chromium	<0.0011		0.0025	0.0011	mg/L		08/27/16 11:31	08/29/16 20:37	5
Cobalt	0.25		0.0025	0.00040	mg/L		08/27/16 11:31	08/29/16 20:37	5
Lead	<0.00035		0.0013	0.00035	mg/L		08/27/16 11:31	08/29/16 20:37	5
Lithium	0.0051		0.0050	0.0032	mg/L		08/27/16 11:31	08/29/16 20:37	5
Molybdenum	<0.00085		0.015	0.00085	mg/L		08/27/16 11:31	08/29/16 20:37	5
Selenium	0.0012	J	0.0013	0.00024	mg/L		08/27/16 11:31	08/29/16 20:37	5
Thallium	0.00018	J	0.00050	0.000085	mg/L		08/27/16 11:31	08/29/16 20:37	5

Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.000073	J	0.00020	0.000070	mg/L		08/25/16 12:10	08/26/16 14:08	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	290		5.0	3.4	mg/L			08/27/16 15:23	1

Client Sample Results

Client: Southern Company
Project/Site: CCR Plant Scherer

TestAmerica Job ID: 400-126207-1

Client Sample ID: SGWC-9

Lab Sample ID: 400-126207-3

Date Collected: 08/22/16 14:56

Matrix: Water

Date Received: 08/23/16 09:22

Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	9.7	*	1.0	0.89	mg/L			09/01/16 07:49	1
Fluoride	<0.082	*	0.20	0.082	mg/L			09/01/16 07:49	1
Sulfate	300		25	18	mg/L			09/02/16 18:37	25

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0010		0.0025	0.0010	mg/L		08/27/16 11:31	08/29/16 21:17	5
Arsenic	<0.00046		0.0013	0.00046	mg/L		08/27/16 11:31	08/29/16 21:17	5
Barium	0.049		0.0025	0.00049	mg/L		08/27/16 11:31	08/29/16 21:17	5
Beryllium	<0.00034		0.0025	0.00034	mg/L		08/27/16 11:31	08/29/16 21:17	5
Cadmium	<0.00034		0.0025	0.00034	mg/L		08/27/16 11:31	08/29/16 21:17	5
Chromium	<0.0011		0.0025	0.0011	mg/L		08/27/16 11:31	08/29/16 21:17	5
Cobalt	0.017		0.0025	0.00040	mg/L		08/27/16 11:31	08/29/16 21:17	5
Lead	<0.00035		0.0013	0.00035	mg/L		08/27/16 11:31	08/29/16 21:17	5
Lithium	<0.0032		0.0050	0.0032	mg/L		08/27/16 11:31	08/29/16 21:17	5
Molybdenum	0.00099	J	0.015	0.00085	mg/L		08/27/16 11:31	08/29/16 21:17	5
Selenium	<0.00024		0.0013	0.00024	mg/L		08/27/16 11:31	08/29/16 21:17	5
Thallium	<0.000085		0.00050	0.000085	mg/L		08/27/16 11:31	08/29/16 21:17	5

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	57		1.3	0.63	mg/L		08/27/16 11:31	08/30/16 13:49	25

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Boron	1.6		0.25	0.11	mg/L		08/27/16 11:31	08/30/16 15:30	25

Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.000070		0.00020	0.000070	mg/L		08/25/16 12:10	08/26/16 14:11	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	500		5.0	3.4	mg/L			08/27/16 15:23	1

Client Sample Results

Client: Southern Company
Project/Site: CCR Plant Scherer

TestAmerica Job ID: 400-126207-1

Client Sample ID: FB-7
Date Collected: 08/22/16 15:08
Date Received: 08/23/16 09:22

Lab Sample ID: 400-126207-4
Matrix: Water

Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<0.89	*	1.0	0.89	mg/L			09/01/16 08:12	1
Fluoride	<0.082	*	0.20	0.082	mg/L			09/01/16 08:12	1
Sulfate	<0.70	*	1.0	0.70	mg/L			09/01/16 08:12	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0010		0.0025	0.0010	mg/L		08/27/16 11:31	08/29/16 21:22	5
Arsenic	<0.00046		0.0013	0.00046	mg/L		08/27/16 11:31	08/29/16 21:22	5
Barium	<0.00049		0.0025	0.00049	mg/L		08/27/16 11:31	08/29/16 21:22	5
Beryllium	<0.00034		0.0025	0.00034	mg/L		08/27/16 11:31	08/29/16 21:22	5
Boron	<0.021		0.050	0.021	mg/L		08/27/16 11:31	08/29/16 21:22	5
Cadmium	<0.00034		0.0025	0.00034	mg/L		08/27/16 11:31	08/29/16 21:22	5
Calcium	<0.13		0.25	0.13	mg/L		08/27/16 11:31	08/29/16 21:22	5
Chromium	<0.0011		0.0025	0.0011	mg/L		08/27/16 11:31	08/29/16 21:22	5
Cobalt	<0.00040		0.0025	0.00040	mg/L		08/27/16 11:31	08/29/16 21:22	5
Lead	<0.00035		0.0013	0.00035	mg/L		08/27/16 11:31	08/29/16 21:22	5
Lithium	<0.0032		0.0050	0.0032	mg/L		08/27/16 11:31	08/29/16 21:22	5
Molybdenum	<0.00085		0.015	0.00085	mg/L		08/27/16 11:31	08/29/16 21:22	5
Selenium	<0.00024		0.0013	0.00024	mg/L		08/27/16 11:31	08/29/16 21:22	5
Thallium	<0.000085		0.00050	0.000085	mg/L		08/27/16 11:31	08/29/16 21:22	5

Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.000070		0.00020	0.000070	mg/L		08/25/16 12:10	08/26/16 14:12	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	<3.4		5.0	3.4	mg/L			08/27/16 15:23	1

Client Sample Results

Client: Southern Company
Project/Site: CCR Plant Scherer

TestAmerica Job ID: 400-126207-1

Client Sample ID: DUP-7

Date Collected: 08/22/16 00:00

Date Received: 08/23/16 09:22

Lab Sample ID: 400-126207-5

Matrix: Water

Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	8.0	*	1.0	0.89	mg/L			09/01/16 08:35	1
Fluoride	0.084	J *	0.20	0.082	mg/L			09/01/16 08:35	1
Sulfate	77		5.0	3.5	mg/L			09/01/16 20:01	5

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0010		0.0025	0.0010	mg/L		08/27/16 11:31	08/29/16 21:26	5
Arsenic	<0.00046		0.0013	0.00046	mg/L		08/27/16 11:31	08/29/16 21:26	5
Barium	0.086		0.0025	0.00049	mg/L		08/27/16 11:31	08/29/16 21:26	5
Beryllium	<0.00034		0.0025	0.00034	mg/L		08/27/16 11:31	08/29/16 21:26	5
Cadmium	<0.00034		0.0025	0.00034	mg/L		08/27/16 11:31	08/29/16 21:26	5
Calcium	30		0.25	0.13	mg/L		08/27/16 11:31	08/29/16 21:26	5
Chromium	<0.0011		0.0025	0.0011	mg/L		08/27/16 11:31	08/29/16 21:26	5
Cobalt	<0.00040		0.0025	0.00040	mg/L		08/27/16 11:31	08/29/16 21:26	5
Lead	<0.00035		0.0013	0.00035	mg/L		08/27/16 11:31	08/29/16 21:26	5
Lithium	<0.0032		0.0050	0.0032	mg/L		08/27/16 11:31	08/29/16 21:26	5
Molybdenum	<0.00085		0.015	0.00085	mg/L		08/27/16 11:31	08/29/16 21:26	5
Selenium	<0.00024		0.0013	0.00024	mg/L		08/27/16 11:31	08/29/16 21:26	5
Thallium	<0.000085		0.00050	0.000085	mg/L		08/27/16 11:31	08/29/16 21:26	5

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Boron	1.3		0.25	0.11	mg/L		08/27/16 11:31	08/30/16 15:35	25

Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.000070		0.00020	0.000070	mg/L		08/25/16 12:10	08/26/16 14:13	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	310		5.0	3.4	mg/L			08/25/16 18:05	1

Definitions/Glossary

Client: Southern Company
Project/Site: CCR Plant Scherer

TestAmerica Job ID: 400-126207-1

Qualifiers

HPLC/IC

Qualifier	Qualifier Description
*	LCS or LCSD is outside acceptance limits.
*	RPD of the LCS and LCSD exceeds the control limits
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
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.
F1	MS and/or MSD Recovery is outside acceptance limits.

Metals

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.
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.

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
CNF	Contains no Free Liquid
DER	Duplicate error ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision level concentration
MDA	Minimum detectable activity
EDL	Estimated Detection Limit
MDC	Minimum detectable concentration
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
NC	Not Calculated
ND	Not detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RER	Relative error ratio
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)

Lab Chronicle

Client: Southern Company
Project/Site: CCR Plant Scherer

TestAmerica Job ID: 400-126207-1

Client Sample ID: SGWC-21

Date Collected: 08/22/16 10:25

Date Received: 08/23/16 09:22

Lab Sample ID: 400-126207-1

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	300.0		1	321039	09/01/16 07:04	KH1	TAL PEN
Total/NA	Analysis	300.0		5	321170	09/01/16 18:07	KH1	TAL PEN
Total Recoverable	Prep	3005A			320447	08/27/16 11:31	DN1	TAL PEN
Total Recoverable	Analysis	6020		5	320709	08/29/16 21:13	RJB	TAL PEN
Total Recoverable	Prep	3005A			320447	08/27/16 11:31	DN1	TAL PEN
Total Recoverable	Analysis	6020		25	320857	08/30/16 15:26	RJB	TAL PEN
Total/NA	Prep	7470A			320064	08/25/16 12:10	JAP	TAL PEN
Total/NA	Analysis	7470A		1	320309	08/26/16 14:10	JAP	TAL PEN
Total/NA	Analysis	SM 2540C		1	320493	08/27/16 15:23	TET	TAL PEN

Client Sample ID: SGWC-20

Date Collected: 08/22/16 12:54

Date Received: 08/23/16 09:22

Lab Sample ID: 400-126207-2

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	300.0		1	321039	09/01/16 07:26	KH1	TAL PEN
Total/NA	Analysis	300.0		25	321486	09/02/16 18:15	TAJ	TAL PEN
Total Recoverable	Prep	3005A			320447	08/27/16 11:31	DN1	TAL PEN
Total Recoverable	Analysis	6020		5	320709	08/29/16 20:37	RJB	TAL PEN
Total Recoverable	Prep	3005A			320447	08/27/16 11:31	DN1	TAL PEN
Total Recoverable	Analysis	6020		25	320857	08/30/16 15:21	RJB	TAL PEN
Total/NA	Prep	7470A			320064	08/25/16 12:10	JAP	TAL PEN
Total/NA	Analysis	7470A		1	320309	08/26/16 14:08	JAP	TAL PEN
Total/NA	Analysis	SM 2540C		1	320493	08/27/16 15:23	TET	TAL PEN

Client Sample ID: SGWC-9

Date Collected: 08/22/16 14:56

Date Received: 08/23/16 09:22

Lab Sample ID: 400-126207-3

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	300.0		1	321039	09/01/16 07:49	KH1	TAL PEN
Total/NA	Analysis	300.0		25	321486	09/02/16 18:37	TAJ	TAL PEN
Total Recoverable	Prep	3005A			320447	08/27/16 11:31	DN1	TAL PEN
Total Recoverable	Analysis	6020		5	320709	08/29/16 21:17	RJB	TAL PEN
Total Recoverable	Prep	3005A	DL		320447	08/27/16 11:31	DN1	TAL PEN
Total Recoverable	Analysis	6020	DL	25	320857	08/30/16 13:49	RJB	TAL PEN
Total Recoverable	Prep	3005A	RADL		320447	08/27/16 11:31	DN1	TAL PEN
Total Recoverable	Analysis	6020	RADL	25	320857	08/30/16 15:30	RJB	TAL PEN
Total/NA	Prep	7470A			320064	08/25/16 12:10	JAP	TAL PEN
Total/NA	Analysis	7470A		1	320309	08/26/16 14:11	JAP	TAL PEN
Total/NA	Analysis	SM 2540C		1	320493	08/27/16 15:23	TET	TAL PEN

TestAmerica Pensacola

Lab Chronicle

Client: Southern Company
Project/Site: CCR Plant Scherer

TestAmerica Job ID: 400-126207-1

Client Sample ID: FB-7

Lab Sample ID: 400-126207-4

Date Collected: 08/22/16 15:08

Matrix: Water

Date Received: 08/23/16 09:22

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	300.0		1	321039	09/01/16 08:12	KH1	TAL PEN
Total Recoverable	Prep	3005A			320447	08/27/16 11:31	DN1	TAL PEN
Total Recoverable	Analysis	6020		5	320709	08/29/16 21:22	RJB	TAL PEN
Total/NA	Prep	7470A			320064	08/25/16 12:10	JAP	TAL PEN
Total/NA	Analysis	7470A		1	320309	08/26/16 14:12	JAP	TAL PEN
Total/NA	Analysis	SM 2540C		1	320493	08/27/16 15:23	TET	TAL PEN

Client Sample ID: DUP-7

Lab Sample ID: 400-126207-5

Date Collected: 08/22/16 00:00

Matrix: Water

Date Received: 08/23/16 09:22

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	300.0		1	321039	09/01/16 08:35	KH1	TAL PEN
Total/NA	Analysis	300.0		5	321170	09/01/16 20:01	KH1	TAL PEN
Total Recoverable	Prep	3005A			320447	08/27/16 11:31	DN1	TAL PEN
Total Recoverable	Analysis	6020		5	320709	08/29/16 21:26	RJB	TAL PEN
Total Recoverable	Prep	3005A	RADL		320447	08/27/16 11:31	DN1	TAL PEN
Total Recoverable	Analysis	6020	RADL	25	320857	08/30/16 15:35	RJB	TAL PEN
Total/NA	Prep	7470A			320064	08/25/16 12:10	JAP	TAL PEN
Total/NA	Analysis	7470A		1	320309	08/26/16 14:13	JAP	TAL PEN
Total/NA	Analysis	SM 2540C		1	320177	08/25/16 18:05	TET	TAL PEN

Laboratory References:

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

QC Association Summary

Client: Southern Company
Project/Site: CCR Plant Scherer

TestAmerica Job ID: 400-126207-1

HPLC/IC

Analysis Batch: 321039

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-126207-1	SGWC-21	Total/NA	Water	300.0	
400-126207-2	SGWC-20	Total/NA	Water	300.0	
400-126207-3	SGWC-9	Total/NA	Water	300.0	
400-126207-4	FB-7	Total/NA	Water	300.0	
400-126207-5	DUP-7	Total/NA	Water	300.0	
MB 400-321039/34	Method Blank	Total/NA	Water	300.0	
LCS 400-321039/35	Lab Control Sample	Total/NA	Water	300.0	
LCSD 400-321039/36	Lab Control Sample Dup	Total/NA	Water	300.0	
400-126211-A-1 MS	Matrix Spike	Total/NA	Water	300.0	
400-126211-A-1 MSD	Matrix Spike Duplicate	Total/NA	Water	300.0	

Analysis Batch: 321170

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-126207-1	SGWC-21	Total/NA	Water	300.0	
400-126207-5	DUP-7	Total/NA	Water	300.0	
MB 400-321170/10	Method Blank	Total/NA	Water	300.0	
LCS 400-321170/11	Lab Control Sample	Total/NA	Water	300.0	
LCSD 400-321170/12	Lab Control Sample Dup	Total/NA	Water	300.0	
400-126207-1 MS	SGWC-21	Total/NA	Water	300.0	
400-126207-1 MSD	SGWC-21	Total/NA	Water	300.0	

Analysis Batch: 321486

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-126207-2	SGWC-20	Total/NA	Water	300.0	
400-126207-3	SGWC-9	Total/NA	Water	300.0	
MB 400-321486/3	Method Blank	Total/NA	Water	300.0	
LCS 400-321486/4	Lab Control Sample	Total/NA	Water	300.0	
LCSD 400-321486/5	Lab Control Sample Dup	Total/NA	Water	300.0	
400-126637-A-2 MS	Matrix Spike	Total/NA	Water	300.0	
400-126637-A-2 MSD	Matrix Spike Duplicate	Total/NA	Water	300.0	

Metals

Prep Batch: 320064

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-126207-1	SGWC-21	Total/NA	Water	7470A	
400-126207-2	SGWC-20	Total/NA	Water	7470A	
400-126207-3	SGWC-9	Total/NA	Water	7470A	
400-126207-4	FB-7	Total/NA	Water	7470A	
400-126207-5	DUP-7	Total/NA	Water	7470A	
MB 400-320064/14-A	Method Blank	Total/NA	Water	7470A	
LCS 400-320064/15-A	Lab Control Sample	Total/NA	Water	7470A	
400-126268-B-1-B MS	Matrix Spike	Total/NA	Water	7470A	
400-126268-B-1-C MSD	Matrix Spike Duplicate	Total/NA	Water	7470A	

Analysis Batch: 320309

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-126207-1	SGWC-21	Total/NA	Water	7470A	320064
400-126207-2	SGWC-20	Total/NA	Water	7470A	320064
400-126207-3	SGWC-9	Total/NA	Water	7470A	320064

TestAmerica Pensacola

QC Association Summary

Client: Southern Company
Project/Site: CCR Plant Scherer

TestAmerica Job ID: 400-126207-1

Metals (Continued)

Analysis Batch: 320309 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-126207-4	FB-7	Total/NA	Water	7470A	320064
400-126207-5	DUP-7	Total/NA	Water	7470A	320064
MB 400-320064/14-A	Method Blank	Total/NA	Water	7470A	320064
LCS 400-320064/15-A	Lab Control Sample	Total/NA	Water	7470A	320064
400-126268-B-1-B MS	Matrix Spike	Total/NA	Water	7470A	320064
400-126268-B-1-C MSD	Matrix Spike Duplicate	Total/NA	Water	7470A	320064

Prep Batch: 320447

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-126207-1	SGWC-21	Total Recoverable	Water	3005A	
400-126207-2	SGWC-20	Total Recoverable	Water	3005A	
400-126207-3 - RADL	SGWC-9	Total Recoverable	Water	3005A	
400-126207-3 - DL	SGWC-9	Total Recoverable	Water	3005A	
400-126207-3	SGWC-9	Total Recoverable	Water	3005A	
400-126207-4	FB-7	Total Recoverable	Water	3005A	
400-126207-5	DUP-7	Total Recoverable	Water	3005A	
400-126207-5 - RADL	DUP-7	Total Recoverable	Water	3005A	
MB 400-320447/1-A ^5	Method Blank	Total Recoverable	Water	3005A	
LCS 400-320447/2-A ^1	Lab Control Sample	Total Recoverable	Water	3005A	
400-126207-2 MS	SGWC-20	Total Recoverable	Water	3005A	
400-126207-2 MSD	SGWC-20	Total Recoverable	Water	3005A	

Analysis Batch: 320709

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-126207-1	SGWC-21	Total Recoverable	Water	6020	320447
400-126207-2	SGWC-20	Total Recoverable	Water	6020	320447
400-126207-3	SGWC-9	Total Recoverable	Water	6020	320447
400-126207-4	FB-7	Total Recoverable	Water	6020	320447
400-126207-5	DUP-7	Total Recoverable	Water	6020	320447
MB 400-320447/1-A ^5	Method Blank	Total Recoverable	Water	6020	320447
LCS 400-320447/2-A ^1	Lab Control Sample	Total Recoverable	Water	6020	320447
400-126207-2 MS	SGWC-20	Total Recoverable	Water	6020	320447
400-126207-2 MSD	SGWC-20	Total Recoverable	Water	6020	320447

Analysis Batch: 320857

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-126207-1	SGWC-21	Total Recoverable	Water	6020	320447
400-126207-2	SGWC-20	Total Recoverable	Water	6020	320447
400-126207-3 - DL	SGWC-9	Total Recoverable	Water	6020	320447
400-126207-3 - RADL	SGWC-9	Total Recoverable	Water	6020	320447
400-126207-5 - RADL	DUP-7	Total Recoverable	Water	6020	320447

General Chemistry

Analysis Batch: 320177

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-126207-5	DUP-7	Total/NA	Water	SM 2540C	
MB 400-320177/1	Method Blank	Total/NA	Water	SM 2540C	
LCS 400-320177/2	Lab Control Sample	Total/NA	Water	SM 2540C	
400-126116-A-2 DU	Duplicate	Total/NA	Water	SM 2540C	

TestAmerica Pensacola

QC Association Summary

Client: Southern Company
Project/Site: CCR Plant Scherer

TestAmerica Job ID: 400-126207-1

General Chemistry (Continued)

Analysis Batch: 320493

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-126207-1	SGWC-21	Total/NA	Water	SM 2540C	
400-126207-2	SGWC-20	Total/NA	Water	SM 2540C	
400-126207-3	SGWC-9	Total/NA	Water	SM 2540C	
400-126207-4	FB-7	Total/NA	Water	SM 2540C	
MB 400-320493/1	Method Blank	Total/NA	Water	SM 2540C	
LCS 400-320493/2	Lab Control Sample	Total/NA	Water	SM 2540C	
400-126189-G-2 DU	Duplicate	Total/NA	Water	SM 2540C	

QC Sample Results

Client: Southern Company
Project/Site: CCR Plant Scherer

TestAmerica Job ID: 400-126207-1

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 400-321039/34
Matrix: Water
Analysis Batch: 321039

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<0.89		1.0	0.89	mg/L			09/01/16 02:52	1
Fluoride	<0.082		0.20	0.082	mg/L			09/01/16 02:52	1
Sulfate	<0.70		1.0	0.70	mg/L			09/01/16 02:52	1

Lab Sample ID: LCS 400-321039/35
Matrix: Water
Analysis Batch: 321039

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloride	10.0	9.79		mg/L		98	90 - 110
Fluoride	10.0	10.1		mg/L		101	90 - 110
Sulfate	10.0	10.0		mg/L		100	90 - 110

Lab Sample ID: LCSD 400-321039/36
Matrix: Water
Analysis Batch: 321039

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
Chloride	10.0	<0.89	*	mg/L		0.2	90 - 110	199	15
Fluoride	10.0	<0.082	*	mg/L		0.2	90 - 110	199	15
Sulfate	10.0	<0.70	*	mg/L		0.2	90 - 110	199	15

Lab Sample ID: 400-126211-A-1 MS
Matrix: Water
Analysis Batch: 321039

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	8.2	*	10.0	18.8		mg/L		106	80 - 120
Fluoride	<0.082	*	10.0	11.3		mg/L		113	80 - 120
Sulfate	200	E *	10.0	215	E 4	mg/L		122	80 - 120

Lab Sample ID: 400-126211-A-1 MSD
Matrix: Water
Analysis Batch: 321039

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	8.2	*	10.0	18.8		mg/L		106	80 - 120	0	20
Fluoride	<0.082	*	10.0	11.4		mg/L		114	80 - 120	1	20
Sulfate	200	E *	10.0	215	E 4	mg/L		126	80 - 120	0	20

Lab Sample ID: MB 400-321170/10
Matrix: Water
Analysis Batch: 321170

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<0.89		1.0	0.89	mg/L			09/01/16 16:58	1
Fluoride	<0.082		0.20	0.082	mg/L			09/01/16 16:58	1
Sulfate	<0.70		1.0	0.70	mg/L			09/01/16 16:58	1

TestAmerica Pensacola

QC Sample Results

Client: Southern Company
Project/Site: CCR Plant Scherer

TestAmerica Job ID: 400-126207-1

Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: LCS 400-321170/11
Matrix: Water
Analysis Batch: 321170

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloride	10.0	9.75		mg/L		97	90 - 110
Fluoride	10.0	10.3		mg/L		103	90 - 110
Sulfate	10.0	9.90		mg/L		99	90 - 110

Lab Sample ID: LCSD 400-321170/12
Matrix: Water
Analysis Batch: 321170

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
Chloride	10.0	9.74		mg/L		97	90 - 110	0	15
Fluoride	10.0	10.3		mg/L		103	90 - 110	0	15
Sulfate	10.0	10.2		mg/L		102	90 - 110	3	15

Lab Sample ID: 400-126207-1 MS
Matrix: Water
Analysis Batch: 321170

Client Sample ID: SGWC-21
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloride	8.3		50.0	60.2		mg/L		104	80 - 120
Fluoride	<0.41		50.0	55.3		mg/L		111	80 - 120
Sulfate	78		50.0	129		mg/L		101	80 - 120

Lab Sample ID: 400-126207-1 MSD
Matrix: Water
Analysis Batch: 321170

Client Sample ID: SGWC-21
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Chloride	8.3		50.0	59.9		mg/L		103	80 - 120	0	20
Fluoride	<0.41		50.0	55.0		mg/L		110	80 - 120	1	20
Sulfate	78		50.0	130		mg/L		103	80 - 120	1	20

Lab Sample ID: MB 400-321486/3
Matrix: Water
Analysis Batch: 321486

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<0.89		1.0	0.89	mg/L			09/02/16 13:15	1
Fluoride	<0.082		0.20	0.082	mg/L			09/02/16 13:15	1
Sulfate	<0.70		1.0	0.70	mg/L			09/02/16 13:15	1

Lab Sample ID: LCS 400-321486/4
Matrix: Water
Analysis Batch: 321486

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloride	10.0	9.45		mg/L		94	90 - 110
Fluoride	10.0	9.82		mg/L		98	90 - 110
Sulfate	10.0	9.81		mg/L		98	90 - 110

TestAmerica Pensacola

QC Sample Results

Client: Southern Company
Project/Site: CCR Plant Scherer

TestAmerica Job ID: 400-126207-1

Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: LCSD 400-321486/5
Matrix: Water
Analysis Batch: 321486

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
Chloride	10.0	9.63		mg/L		96	90 - 110	2	15
Fluoride	10.0	10.2		mg/L		102	90 - 110	3	15
Sulfate	10.0	9.75		mg/L		98	90 - 110	1	15

Lab Sample ID: 400-126637-A-2 MS
Matrix: Water
Analysis Batch: 321486

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	RPD	RPD Limit
Chloride	<0.89	F1	10.0	552	E F1	mg/L		5519	80 - 120		
Fluoride	<0.082	F1	10.0	13.9	F1	mg/L		139	80 - 120		
Sulfate	280	E	10.0	296	E 4	mg/L		204	80 - 120		

Lab Sample ID: 400-126637-A-2 MSD
Matrix: Water
Analysis Batch: 321486

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	<0.89	F1	10.0	578	E F1	mg/L		5785	80 - 120	5	20
Fluoride	<0.082	F1	10.0	14.2	F1	mg/L		142	80 - 120	2	20
Sulfate	280	E	10.0	298	E 4	mg/L		218	80 - 120	0	20

Method: 6020 - Metals (ICP/MS)

Lab Sample ID: MB 400-320447/1-A ^5
Matrix: Water
Analysis Batch: 320709

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 320447

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0010		0.0025	0.0010	mg/L		08/27/16 11:31	08/29/16 20:28	5
Arsenic	<0.00046		0.0013	0.00046	mg/L		08/27/16 11:31	08/29/16 20:28	5
Barium	<0.00049		0.0025	0.00049	mg/L		08/27/16 11:31	08/29/16 20:28	5
Beryllium	<0.00034		0.0025	0.00034	mg/L		08/27/16 11:31	08/29/16 20:28	5
Boron	<0.021		0.050	0.021	mg/L		08/27/16 11:31	08/29/16 20:28	5
Cadmium	<0.00034		0.0025	0.00034	mg/L		08/27/16 11:31	08/29/16 20:28	5
Calcium	<0.13		0.25	0.13	mg/L		08/27/16 11:31	08/29/16 20:28	5
Chromium	<0.0011		0.0025	0.0011	mg/L		08/27/16 11:31	08/29/16 20:28	5
Cobalt	<0.00040		0.0025	0.00040	mg/L		08/27/16 11:31	08/29/16 20:28	5
Lead	<0.00035		0.0013	0.00035	mg/L		08/27/16 11:31	08/29/16 20:28	5
Lithium	<0.0032		0.0050	0.0032	mg/L		08/27/16 11:31	08/29/16 20:28	5
Molybdenum	<0.00085		0.015	0.00085	mg/L		08/27/16 11:31	08/29/16 20:28	5
Selenium	<0.00024		0.0013	0.00024	mg/L		08/27/16 11:31	08/29/16 20:28	5
Thallium	<0.000085		0.00050	0.000085	mg/L		08/27/16 11:31	08/29/16 20:28	5

TestAmerica Pensacola

QC Sample Results

Client: Southern Company
Project/Site: CCR Plant Scherer

TestAmerica Job ID: 400-126207-1

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

Lab Sample ID: LCS 400-320447/2-A ^1
Matrix: Water
Analysis Batch: 320709

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 320447

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	Limits
Antimony	0.0500	0.0512		mg/L		102	80 - 120
Arsenic	0.0500	0.0552		mg/L		110	80 - 120
Barium	0.0500	0.0455		mg/L		91	80 - 120
Beryllium	0.0500	0.0474		mg/L		95	80 - 120
Boron	0.100	0.0967		mg/L		97	80 - 120
Cadmium	0.0500	0.0482		mg/L		96	80 - 120
Calcium	5.00	4.98		mg/L		100	80 - 120
Chromium	0.0500	0.0504		mg/L		101	80 - 120
Cobalt	0.0500	0.0538		mg/L		108	80 - 120
Lead	0.0500	0.0525		mg/L		105	80 - 120
Lithium	0.0500	0.0505		mg/L		101	80 - 120
Molybdenum	0.0500	0.0503		mg/L		101	80 - 120
Selenium	0.0500	0.0506		mg/L		101	80 - 120
Thallium	0.0100	0.00980		mg/L		98	80 - 120

Lab Sample ID: 400-126207-2 MS
Matrix: Water
Analysis Batch: 320709

Client Sample ID: SGWC-20
Prep Type: Total Recoverable
Prep Batch: 320447

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	Limits
Antimony	<0.0010		0.0500	0.0514		mg/L		103	75 - 125
Arsenic	0.0010	J	0.0500	0.0555		mg/L		109	75 - 125
Barium	0.038		0.0500	0.0825		mg/L		90	75 - 125
Beryllium	0.00074	J	0.0500	0.0488		mg/L		96	75 - 125
Cadmium	<0.00034		0.0500	0.0456		mg/L		91	75 - 125
Calcium	15		5.00	20.8		mg/L		109	75 - 125
Chromium	<0.0011		0.0500	0.0495		mg/L		99	75 - 125
Cobalt	0.25		0.0500	0.297	4	mg/L		104	75 - 125
Lead	<0.00035		0.0500	0.0538		mg/L		108	75 - 125
Lithium	0.0051		0.0500	0.0548		mg/L		99	75 - 125
Molybdenum	<0.00085		0.0500	0.0505		mg/L		101	75 - 125
Selenium	0.0012	J	0.0500	0.0504		mg/L		98	75 - 125
Thallium	0.00018	J	0.0100	0.0101		mg/L		99	75 - 125

Lab Sample ID: 400-126207-2 MSD
Matrix: Water
Analysis Batch: 320709

Client Sample ID: SGWC-20
Prep Type: Total Recoverable
Prep Batch: 320447

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	Limits	RPD	RPD Limit
Antimony	<0.0010		0.0500	0.0506		mg/L		101	75 - 125	2	20
Arsenic	0.0010	J	0.0500	0.0565		mg/L		111	75 - 125	2	20
Barium	0.038		0.0500	0.0843		mg/L		94	75 - 125	2	20
Beryllium	0.00074	J	0.0500	0.0497		mg/L		98	75 - 125	2	20
Cadmium	<0.00034		0.0500	0.0488		mg/L		98	75 - 125	7	20
Calcium	15		5.00	20.8		mg/L		108	75 - 125	0	20
Chromium	<0.0011		0.0500	0.0499		mg/L		100	75 - 125	1	20
Cobalt	0.25		0.0500	0.301	4	mg/L		112	75 - 125	1	20
Lead	<0.00035		0.0500	0.0538		mg/L		108	75 - 125	0	20

TestAmerica Pensacola

QC Sample Results

Client: Southern Company
Project/Site: CCR Plant Scherer

TestAmerica Job ID: 400-126207-1

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

Lab Sample ID: 400-126207-2 MSD
Matrix: Water
Analysis Batch: 320709

Client Sample ID: SGWC-20
Prep Type: Total Recoverable
Prep Batch: 320447

Analyte	Sample	Sample	Spike	MSD	MSD	Unit	D	%Rec	%Rec.	RPD	Limit
	Result	Qualifier	Added	Result	Qualifier				Limits		
Lithium	0.0051		0.0500	0.0557		mg/L		101	75 - 125	2	20
Molybdenum	<0.00085		0.0500	0.0508		mg/L		102	75 - 125	1	20
Selenium	0.0012	J	0.0500	0.0505		mg/L		99	75 - 125	0	20
Thallium	0.00018	J	0.0100	0.0100		mg/L		99	75 - 125	1	20

Method: 7470A - Mercury (CVAA)

Lab Sample ID: MB 400-320064/14-A
Matrix: Water
Analysis Batch: 320309

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 320064

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Mercury	<0.000070		0.00020	0.000070	mg/L		08/25/16 08:56	08/26/16 13:29	1

Lab Sample ID: LCS 400-320064/15-A
Matrix: Water
Analysis Batch: 320309

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 320064

Analyte	Spike Added	LCS	LCS	Unit	D	%Rec	%Rec.
		Result	Qualifier				Limits
Mercury	0.00101	0.000944		mg/L		94	80 - 120

Lab Sample ID: 400-126268-B-1-B MS
Matrix: Water
Analysis Batch: 320309

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 320064

Analyte	Sample	Sample	Spike	MS	MS	Unit	D	%Rec	%Rec.
	Result	Qualifier	Added	Result	Qualifier				Limits
Mercury	<0.000070		0.00201	0.00193		mg/L		96	80 - 120

Lab Sample ID: 400-126268-B-1-C MSD
Matrix: Water
Analysis Batch: 320309

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA
Prep Batch: 320064

Analyte	Sample	Sample	Spike	MSD	MSD	Unit	D	%Rec	%Rec.	RPD	Limit
	Result	Qualifier	Added	Result	Qualifier				Limits		
Mercury	<0.000070		0.00201	0.00188		mg/L		94	80 - 120	2	20

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

Lab Sample ID: MB 400-320177/1
Matrix: Water
Analysis Batch: 320177

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

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Total Dissolved Solids	<3.4		5.0	3.4	mg/L			08/25/16 18:05	1

TestAmerica Pensacola

QC Sample Results

Client: Southern Company
Project/Site: CCR Plant Scherer

TestAmerica Job ID: 400-126207-1

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

Lab Sample ID: LCS 400-320177/2
Matrix: Water
Analysis Batch: 320177

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

Lab Sample ID: 400-126116-A-2 DU
Matrix: Water
Analysis Batch: 320177

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	310		310		mg/L		0.6	5

Lab Sample ID: MB 400-320493/1
Matrix: Water
Analysis Batch: 320493

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	<3.4		5.0	3.4	mg/L			08/27/16 15:23	1

Lab Sample ID: LCS 400-320493/2
Matrix: Water
Analysis Batch: 320493

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	284		mg/L		97	78 - 122

Lab Sample ID: 400-126189-G-2 DU
Matrix: Water
Analysis Batch: 320493

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	10		10.0		mg/L		0	5

Chain of Custody Record



Client Information Client Contact: Joju Abraham Company: Southern Company Address: 241 Ralph McGill Blvd SE B10185 City: Atlanta State, Zip: GA, 30308 Phone: 404-506-7239 Email: JAbraham@southernco.com Project Name: CCR - Scheifer Site: Plant Scherer		Lab PMI: Whitmore, Cheyenne R E-Mail: cheyenne.whitmore@testamericainc.com Phone: 770-315-9696		Carrier Tracking No(s): Job #:		COC No: 400-57303-24790.10 Page: Job #	
Due Date Requested: TAT Requested (days): Standard TAT				Analysis Requested TDS - SM 2540C; Cl ⁻ , SO ₄ ²⁻ - EPA 300 Metals Appendix III & IV - EPA 6020 & EPA 7470 Radium 226 & 228 - SW-846 9316 & 9320 400-126207 COC			
Preservation Codes: A - HCL B - NaOH C - Zn Acetate D - Nitric Acid E - NaHSO ₄ F - MeOH G - Amchlor H - Ascorbic Acid I - Ice J - DI Water K - EDTA L - EDA Other:		Preservation Codes: M - Hexane N - None O - AsNaO ₂ P - Na ₂ O ₄ S Q - Na ₂ SO ₃ R - Na ₂ SO ₃ S - H ₂ SO ₄ T - TSP Dodecahydrate U - Acetone V - MCAA W - ph 4-5 Z - other (specify)		Special Instructions/Note:			
Total Number of Containers: 6							
Sample Identification	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=water, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	Special Instructions/Note
SGWC-21	8/22/16	10:25	G	Water			
SGWC-20	8/22/16	12:54	G	Water			
SGWC-9	8/22/16	14:58	G	Water			
FB-17	8/22/16	15:08	G	Water			
DUP-17	8/22/16		G	Water			
				Water			
				Water			
				Water			
				Water			
				Water			

Non-Hazard
 Flammable
 Skin Irritant
 Poison B
 Unknown
 Radiological
 Deliverable Requested: I, II, III, V, Other (specify)

Possible Hazard Identification
 Non-Hazard
 Flammable
 Skin Irritant
 Poison B
 Unknown
 Radiological
 Deliverable Requested: I, II, III, V, Other (specify)

Empty Kit Relinquished by:

Relinquished by: [Signature]
 Relinquished by: [Signature]
 Relinquished by: [Signature]

Date/Time: 8/22/16 18:30
 Date/Time: [Signature]
 Date/Time: [Signature]

Company: AECOM
 Company: [Signature]
 Company: [Signature]

Received by: Felix 0221 6546 83845978
 Received by: Felix 0221 6546 83874150
 Received by: [Signature] 08/23/16 09:22
 Cool (Temperature) °C and Other Remarks: 0.96 0.6 RS

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

Special Instructions/QC Requirements:

Method of Shipment:

Time:

Date:

Login Sample Receipt Checklist

Client: Southern Company

Job Number: 400-126207-1

SDG Number:

Login Number: 126207

List Number: 1

Creator: Chambers, Cheryle A

List Source: TestAmerica Pensacola

Question	Answer	Comment
Radioactivity wasn't checked or is \leq background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	N/A	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	0.9°C, 0.6°C IR-5
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 <math><6\text{mm}</math> (1/4").	N/A	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

Certification Summary

Client: Southern Company
Project/Site: CCR Plant Scherer

TestAmerica Job ID: 400-126207-1

Laboratory: TestAmerica Pensacola

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

Authority	Program	EPA Region	Certification ID	Expiration Date
Alabama	State Program	4	40150	06-30-17
Arizona	State Program	9	AZ0710	01-11-17
Arkansas DEQ	State Program	6	88-0689	09-01-16 *
California	ELAP	9	2510	03-31-18
Florida	NELAP	4	E81010	06-30-17
Georgia	State Program	4	N/A	06-30-17
Illinois	NELAP	5	200041	10-09-16
Iowa	State Program	7	367	07-31-16 *
Kansas	NELAP	7	E-10253	10-31-16
Kentucky (UST)	State Program	4	53	06-30-17
Kentucky (WW)	State Program	4	98030	12-31-16
Louisiana	NELAP	6	30976	06-30-17
Maryland	State Program	3	233	09-30-17
Massachusetts	State Program	1	M-FL094	06-30-17
Michigan	State Program	5	9912	05-06-17
New Jersey	NELAP	2	FL006	06-30-17
North Carolina (WW/SW)	State Program	4	314	12-31-16
Oklahoma	State Program	6	9810	08-31-17
Pennsylvania	NELAP	3	68-00467	01-31-17
Rhode Island	State Program	1	LAO00307	12-30-16
South Carolina	State Program	4	96026	06-30-16 *
Tennessee	State Program	4	TN02907	06-30-17
Texas	NELAP	6	T104704286-15-9	09-30-16
USDA	Federal		P330-16-00172	05-24-19
Virginia	NELAP	3	460166	06-14-17
Washington	State Program	10	C915	05-15-17
West Virginia DEP	State Program	3	136	08-31-16 *

* Certification renewal pending - certification considered valid.

TestAmerica Pensacola

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

TestAmerica Laboratories, Inc.

TestAmerica Pensacola

3355 McLemore Drive

Pensacola, FL 32514

Tel: (850)474-1001

TestAmerica Job ID: 400-126207-2

Client Project/Site: CCR Plant Scherer

For:

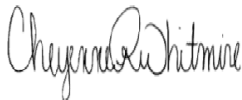
Southern Company

241 Ralph McGill Blvd SE

B10185

Atlanta, Georgia 30308

Attn: Joju Abraham



Authorized for release by:

9/23/2016 1:17:57 PM

Cheyenne Whitmire, Project Manager II

(850)471-6222

cheyenne.whitmire@testamericainc.com

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The test results in this report meet all 2003 NELAC and 2009 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.

1

2

3

4

5

6

7

8

9

10

11

12

13



Table of Contents

Cover Page	1
Table of Contents	2
Case Narrative	3
Method Summary	4
Sample Summary	5
Client Sample Results	6
Definitions	11
Chronicle	12
QC Association	14
QC Sample Results	15
Chain of Custody	17
Receipt Checklists	18
Certification Summary	19

Case Narrative

Client: Southern Company
Project/Site: CCR Plant Scherer

TestAmerica Job ID: 400-126207-2

Job ID: 400-126207-2

Laboratory: TestAmerica Pensacola

Narrative

Job Narrative 400-126207-2

RAD

Method(s) PrecSep_0: Radium-228 Prep Batch 160-267411: Insufficient sample volume was available to perform a sample duplicate (DUP) for the following samples: SGWC-21 (400-126207-1), SGWC-20 (400-126207-2), SGWC-9 (400-126207-3), FB-7 (400-126207-4) and DUP-7 (400-126207-5). A laboratory control sample/ laboratory control sample duplicate (LCS/LCSD) were prepared instead to demonstrate batch precision.

Method(s) PrecSep-21: Radium-226 Prep Batch 160-267408: Insufficient sample volume was available to perform a sample duplicate (DUP) for the following samples: SGWC-21 (400-126207-1), SGWC-20 (400-126207-2), SGWC-9 (400-126207-3), FB-7 (400-126207-4) and DUP-7 (400-126207-5). A laboratory control sample/ laboratory control sample duplicate (LCS/LCSD) were prepared instead to demonstrate batch precision.



Method Summary

Client: Southern Company
Project/Site: CCR Plant Scherer

TestAmerica Job ID: 400-126207-2

Method	Method Description	Protocol	Laboratory
9315	Radium-226 (GFPC)	SW846	TAL SL
9320	Radium-228 (GFPC)	SW846	TAL SL
Ra226_Ra228	Combined Radium-226 and Radium-228	TAL-STL	TAL SL

Protocol References:

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:

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



Sample Summary

Client: Southern Company
Project/Site: CCR Plant Scherer

TestAmerica Job ID: 400-126207-2

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
400-126207-1	SGWC-21	Water	08/22/16 10:25	08/23/16 09:22
400-126207-2	SGWC-20	Water	08/22/16 12:54	08/23/16 09:22
400-126207-3	SGWC-9	Water	08/22/16 14:56	08/23/16 09:22
400-126207-4	FB-7	Water	08/22/16 15:08	08/23/16 09:22
400-126207-5	DUP-7	Water	08/22/16 00:00	08/23/16 09:22

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

Client Sample Results

Client: Southern Company
Project/Site: CCR Plant Scherer

TestAmerica Job ID: 400-126207-2

Client Sample ID: SGWC-21

Lab Sample ID: 400-126207-1

Date Collected: 08/22/16 10:25

Matrix: Water

Date Received: 08/23/16 09:22

Method: 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.0205	U	0.0399	0.0399	1.00	0.0712	pCi/L	08/30/16 18:26	09/21/16 20:00	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	87.7		40 - 110					08/30/16 18:26	09/21/16 20:00	1

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.0948	U	0.245	0.245	1.00	0.422	pCi/L	08/30/16 18:50	09/14/16 16:38	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	87.7		40 - 110					08/30/16 18:50	09/14/16 16:38	1
Y Carrier	83.4		40 - 110					08/30/16 18:50	09/14/16 16:38	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	0.115	U	0.248	0.248	5.00	0.422	pCi/L		09/23/16 06:04	1

Client Sample Results

Client: Southern Company
Project/Site: CCR Plant Scherer

TestAmerica Job ID: 400-126207-2

Client Sample ID: SGWC-20

Lab Sample ID: 400-126207-2

Date Collected: 08/22/16 12:54

Matrix: Water

Date Received: 08/23/16 09:22

Method: 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.112		0.0564	0.0573	1.00	0.0692	pCi/L	08/30/16 18:26	09/21/16 21:33	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	86.9		40 - 110					08/30/16 18:26	09/21/16 21:33	1

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.321	U	0.278	0.280	1.00	0.445	pCi/L	08/30/16 18:50	09/14/16 16:38	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	86.9		40 - 110					08/30/16 18:50	09/14/16 16:38	1
Y Carrier	82.2		40 - 110					08/30/16 18:50	09/14/16 16:38	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	0.433	U	0.284	0.285	5.00	0.445	pCi/L		09/23/16 06:04	1

Client Sample Results

Client: Southern Company
Project/Site: CCR Plant Scherer

TestAmerica Job ID: 400-126207-2

Client Sample ID: SGWC-9

Lab Sample ID: 400-126207-3

Date Collected: 08/22/16 14:56

Matrix: Water

Date Received: 08/23/16 09:22

Method: 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.0319	U	0.0475	0.0476	1.00	0.0812	pCi/L	08/30/16 18:26	09/21/16 21:33	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	80.6		40 - 110					08/30/16 18:26	09/21/16 21:33	1

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.359	U	0.363	0.365	1.00	0.593	pCi/L	08/30/16 18:50	09/14/16 16:38	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	80.6		40 - 110					08/30/16 18:50	09/14/16 16:38	1
Y Carrier	85.6		40 - 110					08/30/16 18:50	09/14/16 16:38	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	0.391	U	0.367	0.368	5.00	0.593	pCi/L		09/23/16 06:04	1

Client Sample Results

Client: Southern Company
Project/Site: CCR Plant Scherer

TestAmerica Job ID: 400-126207-2

Client Sample ID: FB-7
Date Collected: 08/22/16 15:08
Date Received: 08/23/16 09:22

Lab Sample ID: 400-126207-4
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	0.0444	0.0446	1.00	0.0725	pCi/L	08/30/16 18:26	09/21/16 21:33	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	90.0		40 - 110					08/30/16 18:26	09/21/16 21:33	1

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	-0.125	U	0.234	0.234	1.00	0.442	pCi/L	08/30/16 18:50	09/14/16 16:51	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	90.0		40 - 110					08/30/16 18:50	09/14/16 16:51	1
Y Carrier	81.5		40 - 110					08/30/16 18:50	09/14/16 16:51	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	-0.0866	U	0.238	0.238	5.00	0.442	pCi/L		09/23/16 06:04	1

Client Sample Results

Client: Southern Company
Project/Site: CCR Plant Scherer

TestAmerica Job ID: 400-126207-2

Client Sample ID: DUP-7

Date Collected: 08/22/16 00:00

Date Received: 08/23/16 09:22

Lab Sample ID: 400-126207-5

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	0.0633	U	0.0490	0.0493	1.00	0.0723	pCi/L	08/30/16 18:26	09/21/16 21:34	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	94.3		40 - 110					08/30/16 18:26	09/21/16 21:34	1

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.345	U	0.306	0.307	1.00	0.491	pCi/L	08/30/16 18:50	09/14/16 16:51	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	94.3		40 - 110					08/30/16 18:50	09/14/16 16:51	1
Y Carrier	76.6		40 - 110					08/30/16 18:50	09/14/16 16:51	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	0.408	U	0.310	0.311	5.00	0.491	pCi/L		09/23/16 06:04	1

Definitions/Glossary

Client: Southern Company
Project/Site: CCR Plant Scherer

TestAmerica Job ID: 400-126207-2

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
CNF	Contains no Free Liquid
DER	Duplicate error ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision level concentration
MDA	Minimum detectable activity
EDL	Estimated Detection Limit
MDC	Minimum detectable concentration
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
NC	Not Calculated
ND	Not detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RER	Relative error ratio
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)

Lab Chronicle

Client: Southern Company
Project/Site: CCR Plant Scherer

TestAmerica Job ID: 400-126207-2

Client Sample ID: SGWC-21

Date Collected: 08/22/16 10:25

Date Received: 08/23/16 09:22

Lab Sample ID: 400-126207-1

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			267408	08/30/16 18:26	MCJ	TAL SL
Total/NA	Analysis	9315		1	270871	09/21/16 20:00	RTM	TAL SL
Total/NA	Prep	PrecSep_0			267411	08/30/16 18:50	MCJ	TAL SL
Total/NA	Analysis	9320		1	269645	09/14/16 16:38	RTM	TAL SL
Total/NA	Analysis	Ra226_Ra228		1	271225	09/23/16 06:04	ALS	TAL SL

Client Sample ID: SGWC-20

Date Collected: 08/22/16 12:54

Date Received: 08/23/16 09:22

Lab Sample ID: 400-126207-2

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			267408	08/30/16 18:26	MCJ	TAL SL
Total/NA	Analysis	9315		1	270875	09/21/16 21:33	RTM	TAL SL
Total/NA	Prep	PrecSep_0			267411	08/30/16 18:50	MCJ	TAL SL
Total/NA	Analysis	9320		1	269645	09/14/16 16:38	RTM	TAL SL
Total/NA	Analysis	Ra226_Ra228		1	271225	09/23/16 06:04	ALS	TAL SL

Client Sample ID: SGWC-9

Date Collected: 08/22/16 14:56

Date Received: 08/23/16 09:22

Lab Sample ID: 400-126207-3

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			267408	08/30/16 18:26	MCJ	TAL SL
Total/NA	Analysis	9315		1	270875	09/21/16 21:33	RTM	TAL SL
Total/NA	Prep	PrecSep_0			267411	08/30/16 18:50	MCJ	TAL SL
Total/NA	Analysis	9320		1	269645	09/14/16 16:38	RTM	TAL SL
Total/NA	Analysis	Ra226_Ra228		1	271225	09/23/16 06:04	ALS	TAL SL

Client Sample ID: FB-7

Date Collected: 08/22/16 15:08

Date Received: 08/23/16 09:22

Lab Sample ID: 400-126207-4

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			267408	08/30/16 18:26	MCJ	TAL SL
Total/NA	Analysis	9315		1	270875	09/21/16 21:33	RTM	TAL SL
Total/NA	Prep	PrecSep_0			267411	08/30/16 18:50	MCJ	TAL SL
Total/NA	Analysis	9320		1	269927	09/14/16 16:51	RTM	TAL SL
Total/NA	Analysis	Ra226_Ra228		1	271225	09/23/16 06:04	ALS	TAL SL

Lab Chronicle

Client: Southern Company
Project/Site: CCR Plant Scherer

TestAmerica Job ID: 400-126207-2

Client Sample ID: DUP-7

Lab Sample ID: 400-126207-5

Date Collected: 08/22/16 00:00

Matrix: Water

Date Received: 08/23/16 09:22

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			267408	08/30/16 18:26	MCJ	TAL SL
Total/NA	Analysis	9315		1	270875	09/21/16 21:34	RTM	TAL SL
Total/NA	Prep	PrecSep_0			267411	08/30/16 18:50	MCJ	TAL SL
Total/NA	Analysis	9320		1	269927	09/14/16 16:51	RTM	TAL SL
Total/NA	Analysis	Ra226_Ra228		1	271225	09/23/16 06:04	ALS	TAL SL

Laboratory References:

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

QC Association Summary

Client: Southern Company
Project/Site: CCR Plant Scherer

TestAmerica Job ID: 400-126207-2

Rad

Prep Batch: 267408

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-126207-1	SGWC-21	Total/NA	Water	PrecSep-21	
400-126207-2	SGWC-20	Total/NA	Water	PrecSep-21	
400-126207-3	SGWC-9	Total/NA	Water	PrecSep-21	
400-126207-4	FB-7	Total/NA	Water	PrecSep-21	
400-126207-5	DUP-7	Total/NA	Water	PrecSep-21	
MB 160-267408/1-A	Method Blank	Total/NA	Water	PrecSep-21	
LCS 160-267408/2-A	Lab Control Sample	Total/NA	Water	PrecSep-21	
LCSD 160-267408/3-A	Lab Control Sample Dup	Total/NA	Water	PrecSep-21	

Prep Batch: 267411

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-126207-1	SGWC-21	Total/NA	Water	PrecSep_0	
400-126207-2	SGWC-20	Total/NA	Water	PrecSep_0	
400-126207-3	SGWC-9	Total/NA	Water	PrecSep_0	
400-126207-4	FB-7	Total/NA	Water	PrecSep_0	
400-126207-5	DUP-7	Total/NA	Water	PrecSep_0	
MB 160-267411/1-A	Method Blank	Total/NA	Water	PrecSep_0	
LCS 160-267411/2-A	Lab Control Sample	Total/NA	Water	PrecSep_0	
LCSD 160-267411/3-A	Lab Control Sample Dup	Total/NA	Water	PrecSep_0	

QC Sample Results

Client: Southern Company
Project/Site: CCR Plant Scherer

TestAmerica Job ID: 400-126207-2

Method: 9315 - Radium-226 (GFPC)

Lab Sample ID: MB 160-267408/1-A
Matrix: Water
Analysis Batch: 270875

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 267408

Analyte	MB MB		Count	Total	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
	Result	Qualifier	Uncert. (2σ+/-)	Uncert. (2σ+/-)						
Radium-226	0.03607	U	0.0527	0.0528	1.00	0.0896	pCi/L	08/30/16 18:26	09/21/16 16:04	1
Carrier	MB MB		Limits		Prepared	Analyzed	Dil Fac			
Ba Carrier	%Yield	Qualifier	Limits							
Ba Carrier	83.5		40 - 110		08/30/16 18:26	09/21/16 16:04	1			

Lab Sample ID: LCS 160-267408/2-A
Matrix: Water
Analysis Batch: 271155

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 267408

Analyte	Spike Added	LCS Result	LCS Qual	Total	RL	MDC	Unit	%Rec	%Rec. Limits
				Uncert. (2σ+/-)					
Radium-226	11.2	13.64		1.33	1.00	0.0752	pCi/L	122	68 - 137
Carrier	LCS LCS		Limits		Prepared	Analyzed	Dil Fac		
Ba Carrier	%Yield	Qualifier	Limits						
Ba Carrier	84.6		40 - 110						

Lab Sample ID: LCSD 160-267408/3-A
Matrix: Water
Analysis Batch: 270875

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 267408

Analyte	Spike Added	LCSD Result	LCSD Qual	Total	RL	MDC	Unit	%Rec	%Rec. Limits	RER	RER Limit
				Uncert. (2σ+/-)							
Radium-226	11.2	14.57		1.42	1.00	0.0823	pCi/L	131	68 - 137	0.34	1
Carrier	LCSD LCSD		Limits		Prepared	Analyzed	Dil Fac				
Ba Carrier	%Yield	Qualifier	Limits								
Ba Carrier	75.5		40 - 110								

Method: 9320 - Radium-228 (GFPC)

Lab Sample ID: MB 160-267411/1-A
Matrix: Water
Analysis Batch: 269644

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 267411

Analyte	MB MB		Count	Total	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
	Result	Qualifier	Uncert. (2σ+/-)	Uncert. (2σ+/-)						
Radium-228	0.1552	U	0.267	0.268	1.00	0.452	pCi/L	08/30/16 18:50	09/14/16 16:36	1
Carrier	MB MB		Limits		Prepared	Analyzed	Dil Fac			
Ba Carrier	%Yield	Qualifier	Limits							
Ba Carrier	83.5		40 - 110		08/30/16 18:50	09/14/16 16:36	1			
Y Carrier	%Yield	Qualifier	Limits		Prepared	Analyzed	Dil Fac			
Y Carrier	81.9		40 - 110					08/30/16 18:50	09/14/16 16:36	1

TestAmerica Pensacola

QC Sample Results

Client: Southern Company
 Project/Site: CCR Plant Scherer

TestAmerica Job ID: 400-126207-2

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

Lab Sample ID: LCS 160-267411/2-A
Matrix: Water
Analysis Batch: 269644

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 267411

Analyte	Spike Added	LCS Result	LCS Qual	Total Uncert. (2σ+/-)	RL	MDC	Unit	%Rec	%Rec. Limits
Radium-228	14.6	17.28		1.85	1.00	0.405	pCi/L	119	56 - 140

Carrier	LCS %Yield	LCS Qualifier	Limits
Ba Carrier	84.6		40 - 110
Y Carrier	83.4		40 - 110

Lab Sample ID: LCSD 160-267411/3-A
Matrix: Water
Analysis Batch: 269644

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 267411

Analyte	Spike Added	LCSD Result	LCSD Qual	Total Uncert. (2σ+/-)	RL	MDC	Unit	%Rec	%Rec. Limits	RER	RER Limit
Radium-228	14.6	17.37		1.90	1.00	0.446	pCi/L	119	56 - 140	0.02	1

Carrier	LCSD %Yield	LCSD Qualifier	Limits
Ba Carrier	75.5		40 - 110
Y Carrier	80.7		40 - 110



Chain of Custody Record

TestAmerica Pensacola
 3355 McLemore Drive
 Pensacola, FL 32514
 Phone (850) 474-1001 Fax (850) 478-2671

Client Information
 Client Contact: *Joju Abraham*
 Phone: *770-315-9696*
 Company: *Southern Company*
 Address: *241 Ralph McGill Blvd SE B10185*
 City: *Atlanta*
 State, Zip: *GA, 30308*
 Phone: *404-506-7239*
 Email: *JAbraham@southernco.com*
 Project Name: *CCR - Scheifer*
 Site: *Plant Scherer*

Lab P/M: *Whitmore, Cheyenne R.*
 E-Mail: *cheyenne.whitmore@testamericainc.com*

Carrier Tracking No(s): *400-57303-24790.10*
Job #:

Analysis Requested
 TDS - SM 2540C ; Cl⁻, SO₄²⁻ - EPA 300
 Metals Appendix III & IV - EPA 6020 & EPA 7470
 Radium 226 & 228 - SW-846 9316 & 9320
 Total Number of Containers: *6*

Preservation Codes:
 M - Hexane
 N - None
 O - AsNaO2
 P - Na2O4S
 Q - Na2SO3
 R - Na2SO3
 S - H2SO4
 T - TSP Dodecahydrate
 U - Acetone
 V - MCAA
 W - ph 4-5
 L - EDA
 Other: *.*

Field Filtered Sample (Yes or No): Yes No
Perform MS/MSD (Yes or No): Yes No

Sample Identification	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=wateroil, BT=Tissue, A=Air)	Analysis Requested		Special Instructions/Note:
					D	D	
<i>SGWC-21</i>	<i>8/22/16</i>	<i>10:25</i>	<i>G</i>	<i>Water</i>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<i>6</i>
<i>SGWC-20</i>	<i>8/22/16</i>	<i>12:54</i>	<i>G</i>	<i>Water</i>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<i>6</i>
<i>SGWC-9</i>	<i>8/22/16</i>	<i>14:36</i>	<i>G</i>	<i>Water</i>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<i>6</i>
<i>FB-17</i>	<i>8/22/16</i>	<i>15:08</i>	<i>G</i>	<i>Water</i>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<i>6</i>
<i>DUP-17</i>	<i>9/22/16</i>	<i>←</i>	<i>G</i>	<i>Water</i>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<i>6</i>
				<i>Water</i>	<input type="checkbox"/>	<input type="checkbox"/>	
				<i>Water</i>	<input type="checkbox"/>	<input type="checkbox"/>	
				<i>Water</i>	<input type="checkbox"/>	<input type="checkbox"/>	
				<i>Water</i>	<input type="checkbox"/>	<input type="checkbox"/>	
				<i>Water</i>	<input type="checkbox"/>	<input type="checkbox"/>	
				<i>Water</i>	<input type="checkbox"/>	<input type="checkbox"/>	
				<i>Water</i>	<input type="checkbox"/>	<input type="checkbox"/>	

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

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

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

Special Instructions/QC Requirements:

Empty Kit Relinquished by: *K. M. [Signature]*
 Date: *8/22/16 18:30*
 Company: *ACELCOM*

Relinquished by: *Felix [Signature]*
 Date/Time: *8/22/16 09:22*
 Company: *TA*

Relinquished by: *[Signature]*
 Date/Time: *8/22/16 09:22*
 Company: *TA*

Custody Seals Intact: Yes No
 Custody Seal No.: *0.96 0.6 1.85*



Login Sample Receipt Checklist

Client: Southern Company

Job Number: 400-126207-2

SDG Number:

Login Number: 126207

List Number: 1

Creator: Chambers, Cheryle A

List Source: TestAmerica Pensacola

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	N/A	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	0.9°C, 0.6°C IR-5
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	



Certification Summary

Client: Southern Company
Project/Site: CCR Plant Scherer

TestAmerica Job ID: 400-126207-2

Laboratory: TestAmerica Pensacola

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

Authority	Program	EPA Region	Certification ID	Expiration Date
Alabama	State Program	4	40150	06-30-17
Arizona	State Program	9	AZ0710	01-11-17
Arkansas DEQ	State Program	6	88-0689	09-01-16 *
California	ELAP	9	2510	03-31-18
Florida	NELAP	4	E81010	06-30-17
Georgia	State Program	4	N/A	06-30-17
Illinois	NELAP	5	200041	10-09-16
Iowa	State Program	7	367	07-31-16 *
Kansas	NELAP	7	E-10253	10-31-16
Kentucky (UST)	State Program	4	53	06-30-17
Kentucky (WW)	State Program	4	98030	12-31-16
Louisiana	NELAP	6	30976	06-30-17
Maryland	State Program	3	233	09-30-17
Massachusetts	State Program	1	M-FL094	06-30-17
Michigan	State Program	5	9912	05-06-17
New Jersey	NELAP	2	FL006	06-30-17
North Carolina (WW/SW)	State Program	4	314	12-31-16
Oklahoma	State Program	6	9810	08-31-17
Pennsylvania	NELAP	3	68-00467	01-31-17
Rhode Island	State Program	1	LAO00307	12-30-16
South Carolina	State Program	4	96026	06-30-16 *
Tennessee	State Program	4	TN02907	06-30-17
Texas	NELAP	6	T104704286-16-10	09-30-17
USDA	Federal		P330-16-00172	05-24-19
Virginia	NELAP	3	460166	06-14-17
Washington	State Program	10	C915	05-15-17
West Virginia DEP	State Program	3	136	06-30-17

Laboratory: TestAmerica St. Louis

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

Authority	Program	EPA Region	Certification ID	Expiration Date
Alaska	State Program	10	MO00054	06-30-17
California	State Program	9	2886	03-31-18
Connecticut	State Program	1	PH-0241	03-31-17
Florida	NELAP	4	E87689	06-30-17
Illinois	NELAP	5	003757	11-30-16 *
Iowa	State Program	7	373	12-01-16 *
Kansas	NELAP	7	E-10236	10-31-16 *
Kentucky (DW)	State Program	4	90125	12-31-16
L-A-B	DoD ELAP		L2305	04-06-19
Louisiana	NELAP	6	04080	06-30-17
Louisiana (DW)	NELAP	6	LA160008	12-31-16
Maryland	State Program	3	310	09-30-17
Missouri	State Program	7	780	06-30-17
Nevada	State Program	9	MO000542016-1	07-31-17
New Jersey	NELAP	2	MO002	06-30-17
New York	NELAP	2	11616	03-31-17
North Dakota	State Program	8	R207	06-30-17
NRC	NRC		24-24817-01	12-31-22

* Certification renewal pending - certification considered valid.

TestAmerica Pensacola

Certification Summary

Client: Southern Company
Project/Site: CCR Plant Scherer

TestAmerica Job ID: 400-126207-2

Laboratory: TestAmerica St. Louis (Continued)

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

Authority	Program	EPA Region	Certification ID	Expiration Date
Oklahoma	State Program	6	9997	08-31-17
Pennsylvania	NELAP	3	68-00540	02-28-17 *
South Carolina	State Program	4	85002001	06-30-16 *
Texas	NELAP	6	T104704193-15-9	07-31-17
USDA	Federal		P330-07-00122	01-09-17
Utah	NELAP	8	MO000542016-8	07-31-17
Virginia	NELAP	3	460230	06-14-17
Washington	State Program	10	C592	08-30-17
West Virginia DEP	State Program	3	381	08-31-16 *

* Certification renewal pending - certification considered valid.

TestAmerica Pensacola

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

TestAmerica Laboratories, Inc.

TestAmerica Pensacola

3355 McLemore Drive

Pensacola, FL 32514

Tel: (850)474-1001

TestAmerica Job ID: 400-126211-1

Client Project/Site: CCR Plant Scherer

For:

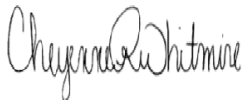
Southern Company

241 Ralph McGill Blvd SE

B10185

Atlanta, Georgia 30308

Attn: Joju Abraham



Authorized for release by:

9/12/2016 3:42:51 PM

Cheyenne Whitmire, Project Manager II

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cheyenne.whitmire@testamericainc.com

LINKS

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The test results in this report meet all 2003 NELAC and 2009 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.

1

2

3

4

5

6

7

8

9

10

11

12

13

14



Table of Contents

Cover Page	1
Table of Contents	2
Case Narrative	3
Detection Summary	4
Method Summary	6
Sample Summary	7
Client Sample Results	8
Definitions	12
Chronicle	13
QC Association	15
QC Sample Results	18
Chain of Custody	24
Receipt Checklists	26
Certification Summary	27

Case Narrative

Client: Southern Company
Project/Site: CCR Plant Scherer

TestAmerica Job ID: 400-126211-1

Job ID: 400-126211-1

Laboratory: TestAmerica Pensacola

Narrative

**Job Narrative
400-126211-1**

HPLC/IC

Method(s) 300.0: The LCSD failed to inject properly and failed low, however an MS/MSD were ran on another sample and recovered within passing criteria; therefore the data is reported.

Method(s) 300.0: The following samples were diluted to bring the concentration of target analytes within the calibration range: SGWC-19 (400-126211-1) and SGWC-18 (400-126211-2). Elevated reporting limits (RLs) are provided.

Metals

Method(s) 6020: The following samples were diluted to bring the concentration of target analytes within the calibration range: SGWC-19 (400-126211-1) and SGWC-18 (400-126211-2). Elevated reporting limits (RLs) are provided.

Method(s) 6020: The continuing calibration verification (CCV) associated with batch 320857 recovered above the upper control limit for Selenium. The samples associated with this CCV were non-detects for the affected analytes; therefore, the data have been reported. The following sample is impacted: GWC-8 (400-126211-4).



Detection Summary

Client: Southern Company
Project/Site: CCR Plant Scherer

TestAmerica Job ID: 400-126211-1

Client Sample ID: SGWC-19

Lab Sample ID: 400-126211-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chloride	8.2	*	1.0	0.89	mg/L	1		300.0	Total/NA
Sulfate	220		10	7.0	mg/L	10		300.0	Total/NA
Barium	0.044		0.0025	0.00049	mg/L	5		6020	Total Recoverable
Calcium	38		0.25	0.13	mg/L	5		6020	Total Recoverable
Chromium	0.015		0.0025	0.0011	mg/L	5		6020	Total Recoverable
Cobalt	0.00066	J	0.0025	0.00040	mg/L	5		6020	Total Recoverable
Boron - RADL	1.7		0.25	0.11	mg/L	25		6020	Total Recoverable
Total Dissolved Solids	350		5.0	3.4	mg/L	1		SM 2540C	Total/NA

Client Sample ID: SGWC-18

Lab Sample ID: 400-126211-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chloride	5.0	*	1.0	0.89	mg/L	1		300.0	Total/NA
Sulfate	500		20	14	mg/L	20		300.0	Total/NA
Arsenic	0.0012	J	0.0013	0.00046	mg/L	5		6020	Total Recoverable
Barium	0.014		0.0025	0.00049	mg/L	5		6020	Total Recoverable
Chromium	0.0070		0.0025	0.0011	mg/L	5		6020	Total Recoverable
Cobalt	0.13		0.0025	0.00040	mg/L	5		6020	Total Recoverable
Selenium	0.0066		0.0013	0.00024	mg/L	5		6020	Total Recoverable
Thallium	0.00015	J	0.00050	0.000085	mg/L	5		6020	Total Recoverable
Calcium - RA	48		0.25	0.13	mg/L	5		6020	Total Recoverable
Boron - RADL	3.3		0.25	0.11	mg/L	25		6020	Total Recoverable
Mercury	0.00014	J	0.00020	0.000070	mg/L	1		7470A	Total/NA
Total Dissolved Solids	670		5.0	3.4	mg/L	1		SM 2540C	Total/NA

Client Sample ID: EQB-7

Lab Sample ID: 400-126211-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Barium	0.0015	J	0.0025	0.00049	mg/L	5		6020	Total Recoverable

Client Sample ID: GWC-8

Lab Sample ID: 400-126211-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chloride	7.5	*	1.0	0.89	mg/L	1		300.0	Total/NA
Fluoride	0.13	J*	0.20	0.082	mg/L	1		300.0	Total/NA
Sulfate	33	*	1.0	0.70	mg/L	1		300.0	Total/NA
Barium	0.034		0.0025	0.00049	mg/L	5		6020	Total Recoverable
Boron	0.10		0.050	0.021	mg/L	5		6020	Total Recoverable

This Detection Summary does not include radiochemical test results.

TestAmerica Pensacola

Detection Summary

Client: Southern Company
Project/Site: CCR Plant Scherer

TestAmerica Job ID: 400-126211-1

Client Sample ID: GWC-8 (Continued)

Lab Sample ID: 400-126211-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Calcium	17		0.25	0.13	mg/L	5		6020	Total
Chromium	0.0049		0.0025	0.0011	mg/L	5		6020	Total Recoverable
Total Dissolved Solids	140		5.0	3.4	mg/L	1		SM 2540C	Total Recoverable Total/NA

This Detection Summary does not include radiochemical test results.

TestAmerica Pensacola

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

Method Summary

Client: Southern Company
Project/Site: CCR Plant Scherer

TestAmerica Job ID: 400-126211-1

Method	Method Description	Protocol	Laboratory
300.0	Anions, Ion Chromatography	MCAWW	TAL PEN
6020	Metals (ICP/MS)	SW846	TAL PEN
7470A	Mercury (CVAA)	SW846	TAL PEN
SM 2540C	Solids, Total Dissolved (TDS)	SM	TAL PEN

Protocol References:

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:

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

Sample Summary

Client: Southern Company
Project/Site: CCR Plant Scherer

TestAmerica Job ID: 400-126211-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
400-126211-1	SGWC-19	Water	08/22/16 10:40	08/23/16 09:22
400-126211-2	SGWC-18	Water	08/22/16 14:08	08/23/16 09:22
400-126211-3	EQB-7	Water	08/22/16 15:25	08/23/16 09:22
400-126211-4	GWC-8	Water	08/23/16 12:14	08/24/16 09:59

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

Client Sample Results

Client: Southern Company
Project/Site: CCR Plant Scherer

TestAmerica Job ID: 400-126211-1

Client Sample ID: SGWC-19

Lab Sample ID: 400-126211-1

Date Collected: 08/22/16 10:40

Matrix: Water

Date Received: 08/23/16 09:22

Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	8.2	*	1.0	0.89	mg/L			09/01/16 05:09	1
Fluoride	<0.082	*	0.20	0.082	mg/L			09/01/16 05:09	1
Sulfate	220		10	7.0	mg/L			09/01/16 20:24	10

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0010		0.0025	0.0010	mg/L		08/27/16 11:31	08/29/16 21:31	5
Arsenic	<0.00046		0.0013	0.00046	mg/L		08/27/16 11:31	08/29/16 21:31	5
Barium	0.044		0.0025	0.00049	mg/L		08/27/16 11:31	08/29/16 21:31	5
Beryllium	<0.00034		0.0025	0.00034	mg/L		08/27/16 11:31	08/29/16 21:31	5
Cadmium	<0.00034		0.0025	0.00034	mg/L		08/27/16 11:31	08/29/16 21:31	5
Calcium	38		0.25	0.13	mg/L		08/27/16 11:31	08/29/16 21:31	5
Chromium	0.015		0.0025	0.0011	mg/L		08/27/16 11:31	08/29/16 21:31	5
Cobalt	0.00066	J	0.0025	0.00040	mg/L		08/27/16 11:31	08/29/16 21:31	5
Lead	<0.00035		0.0013	0.00035	mg/L		08/27/16 11:31	08/29/16 21:31	5
Molybdenum	<0.00085		0.015	0.00085	mg/L		08/27/16 11:31	08/29/16 21:31	5
Selenium	<0.00024		0.0013	0.00024	mg/L		08/27/16 11:31	08/29/16 21:31	5
Thallium	<0.000085		0.00050	0.000085	mg/L		08/27/16 11:31	08/29/16 21:31	5

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lithium	<0.0032		0.0050	0.0032	mg/L		08/27/16 11:31	08/30/16 13:58	5

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Boron	1.7		0.25	0.11	mg/L		08/27/16 11:31	08/30/16 15:39	25

Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.000070		0.00020	0.000070	mg/L		08/25/16 11:53	08/26/16 13:56	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	350		5.0	3.4	mg/L			08/27/16 15:23	1

Client Sample Results

Client: Southern Company
Project/Site: CCR Plant Scherer

TestAmerica Job ID: 400-126211-1

Client Sample ID: SGWC-18

Lab Sample ID: 400-126211-2

Date Collected: 08/22/16 14:08

Matrix: Water

Date Received: 08/23/16 09:22

Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	5.0	*	1.0	0.89	mg/L			09/01/16 06:18	1
Fluoride	<0.082	*	0.20	0.082	mg/L			09/01/16 06:18	1
Sulfate	500		20	14	mg/L			09/01/16 21:32	20

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0010		0.0025	0.0010	mg/L		08/27/16 11:31	08/29/16 21:35	5
Arsenic	0.0012	J	0.0013	0.00046	mg/L		08/27/16 11:31	08/29/16 21:35	5
Barium	0.014		0.0025	0.00049	mg/L		08/27/16 11:31	08/29/16 21:35	5
Beryllium	<0.00034		0.0025	0.00034	mg/L		08/27/16 11:31	08/29/16 21:35	5
Chromium	0.0070		0.0025	0.0011	mg/L		08/27/16 11:31	08/29/16 21:35	5
Cobalt	0.13		0.0025	0.00040	mg/L		08/27/16 11:31	08/29/16 21:35	5
Lead	<0.00035		0.0013	0.00035	mg/L		08/27/16 11:31	08/29/16 21:35	5
Lithium	<0.0032		0.0050	0.0032	mg/L		08/27/16 11:31	08/29/16 21:35	5
Molybdenum	<0.00085		0.015	0.00085	mg/L		08/27/16 11:31	08/29/16 21:35	5
Selenium	0.0066		0.0013	0.00024	mg/L		08/27/16 11:31	08/29/16 21:35	5
Thallium	0.00015	J	0.00050	0.000085	mg/L		08/27/16 11:31	08/29/16 21:35	5

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cadmium	<0.00034		0.0025	0.00034	mg/L		08/27/16 11:31	08/30/16 14:07	5
Calcium	48		0.25	0.13	mg/L		08/27/16 11:31	08/30/16 14:07	5

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Boron	3.3		0.25	0.11	mg/L		08/27/16 11:31	08/30/16 15:44	25

Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.00014	J	0.00020	0.000070	mg/L		08/25/16 11:53	08/26/16 13:57	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	670		5.0	3.4	mg/L			08/27/16 15:23	1

Client Sample Results

Client: Southern Company
Project/Site: CCR Plant Scherer

TestAmerica Job ID: 400-126211-1

Client Sample ID: EQB-7

Date Collected: 08/22/16 15:25

Date Received: 08/23/16 09:22

Lab Sample ID: 400-126211-3

Matrix: Water

Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<0.89	*	1.0	0.89	mg/L			09/01/16 06:41	1
Fluoride	<0.082	*	0.20	0.082	mg/L			09/01/16 06:41	1
Sulfate	<0.70	*	1.0	0.70	mg/L			09/01/16 06:41	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0010		0.0025	0.0010	mg/L		08/27/16 11:31	08/29/16 21:40	5
Arsenic	<0.00046		0.0013	0.00046	mg/L		08/27/16 11:31	08/29/16 21:40	5
Barium	0.0015	J	0.0025	0.00049	mg/L		08/27/16 11:31	08/29/16 21:40	5
Beryllium	<0.00034		0.0025	0.00034	mg/L		08/27/16 11:31	08/29/16 21:40	5
Boron	<0.021		0.050	0.021	mg/L		08/27/16 11:31	08/29/16 21:40	5
Cadmium	<0.00034		0.0025	0.00034	mg/L		08/27/16 11:31	08/29/16 21:40	5
Calcium	<0.13		0.25	0.13	mg/L		08/27/16 11:31	08/29/16 21:40	5
Chromium	<0.0011		0.0025	0.0011	mg/L		08/27/16 11:31	08/29/16 21:40	5
Cobalt	<0.00040		0.0025	0.00040	mg/L		08/27/16 11:31	08/29/16 21:40	5
Lead	<0.00035		0.0013	0.00035	mg/L		08/27/16 11:31	08/29/16 21:40	5
Molybdenum	<0.00085		0.015	0.00085	mg/L		08/27/16 11:31	08/29/16 21:40	5
Selenium	<0.00024		0.0013	0.00024	mg/L		08/27/16 11:31	08/29/16 21:40	5
Thallium	<0.000085		0.00050	0.000085	mg/L		08/27/16 11:31	08/29/16 21:40	5

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lithium	<0.0032		0.0050	0.0032	mg/L		08/27/16 11:31	08/30/16 14:29	5

Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.000070		0.00020	0.000070	mg/L		08/25/16 11:53	08/26/16 14:06	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	<3.4		5.0	3.4	mg/L			08/27/16 15:23	1

Client Sample Results

Client: Southern Company
Project/Site: CCR Plant Scherer

TestAmerica Job ID: 400-126211-1

Client Sample ID: GWC-8
Date Collected: 08/23/16 12:14
Date Received: 08/24/16 09:59

Lab Sample ID: 400-126211-4
Matrix: Water

Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	7.5	*	1.0	0.89	mg/L			09/01/16 13:56	1
Fluoride	0.13	J*	0.20	0.082	mg/L			09/01/16 13:56	1
Sulfate	33	*	1.0	0.70	mg/L			09/01/16 13:56	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0010		0.0025	0.0010	mg/L		08/30/16 08:30	08/30/16 19:21	5
Arsenic	<0.00046		0.0013	0.00046	mg/L		08/30/16 08:30	08/30/16 19:21	5
Barium	0.034		0.0025	0.00049	mg/L		08/30/16 08:30	08/30/16 19:21	5
Beryllium	<0.00034		0.0025	0.00034	mg/L		08/30/16 08:30	08/30/16 19:21	5
Boron	0.10		0.050	0.021	mg/L		08/30/16 08:30	08/30/16 19:21	5
Cadmium	<0.00034		0.0025	0.00034	mg/L		08/30/16 08:30	08/30/16 19:21	5
Calcium	17		0.25	0.13	mg/L		08/30/16 08:30	08/30/16 19:21	5
Chromium	0.0049		0.0025	0.0011	mg/L		08/30/16 08:30	08/30/16 19:21	5
Cobalt	<0.00040		0.0025	0.00040	mg/L		08/30/16 08:30	08/30/16 19:21	5
Lead	<0.00035		0.0013	0.00035	mg/L		08/30/16 08:30	08/30/16 19:21	5
Lithium	<0.0032		0.0050	0.0032	mg/L		08/30/16 08:30	08/30/16 19:21	5
Molybdenum	<0.00085		0.015	0.00085	mg/L		08/30/16 08:30	08/30/16 19:21	5
Selenium	<0.00024	^	0.0013	0.00024	mg/L		08/30/16 08:30	08/30/16 19:21	5
Thallium	<0.000085		0.00050	0.000085	mg/L		08/30/16 08:30	08/30/16 19:21	5

Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.000070		0.00020	0.000070	mg/L		08/25/16 11:53	08/26/16 14:07	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	140		5.0	3.4	mg/L			08/27/16 15:23	1

Definitions/Glossary

Client: Southern Company
Project/Site: CCR Plant Scherer

TestAmerica Job ID: 400-126211-1

Qualifiers

HPLC/IC

Qualifier	Qualifier Description
*	LCS or LCSD is outside acceptance limits.
*	RPD of the LCS and LCSD exceeds the control limits
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
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.
^	ICV,CCV,ICB,CCB, ISA, ISB, CRI, CRA, DLCK or MRL standard: Instrument related QC is outside acceptance limits.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
α	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CNF	Contains no Free Liquid
DER	Duplicate error ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision level concentration
MDA	Minimum detectable activity
EDL	Estimated Detection Limit
MDC	Minimum detectable concentration
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
NC	Not Calculated
ND	Not detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RER	Relative error ratio
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)

Lab Chronicle

Client: Southern Company
Project/Site: CCR Plant Scherer

TestAmerica Job ID: 400-126211-1

Client Sample ID: SGWC-19

Date Collected: 08/22/16 10:40

Date Received: 08/23/16 09:22

Lab Sample ID: 400-126211-1

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	300.0		1	321039	09/01/16 05:09	KH1	TAL PEN
Total/NA	Analysis	300.0		10	321170	09/01/16 20:24	KH1	TAL PEN
Total Recoverable	Prep	3005A			320447	08/27/16 11:31	DN1	TAL PEN
Total Recoverable	Analysis	6020		5	320709	08/29/16 21:31	RJB	TAL PEN
Total Recoverable	Prep	3005A	RA		320447	08/27/16 11:31	DN1	TAL PEN
Total Recoverable	Analysis	6020	RA	5	320857	08/30/16 13:58	RJB	TAL PEN
Total Recoverable	Prep	3005A	RADL		320447	08/27/16 11:31	DN1	TAL PEN
Total Recoverable	Analysis	6020	RADL	25	320857	08/30/16 15:39	RJB	TAL PEN
Total/NA	Prep	7470A			320064	08/25/16 11:53	JAP	TAL PEN
Total/NA	Analysis	7470A		1	320309	08/26/16 13:56	JAP	TAL PEN
Total/NA	Analysis	SM 2540C		1	320493	08/27/16 15:23	TET	TAL PEN

Client Sample ID: SGWC-18

Date Collected: 08/22/16 14:08

Date Received: 08/23/16 09:22

Lab Sample ID: 400-126211-2

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	300.0		1	321039	09/01/16 06:18	KH1	TAL PEN
Total/NA	Analysis	300.0		20	321170	09/01/16 21:32	KH1	TAL PEN
Total Recoverable	Prep	3005A			320447	08/27/16 11:31	DN1	TAL PEN
Total Recoverable	Analysis	6020		5	320709	08/29/16 21:35	RJB	TAL PEN
Total Recoverable	Prep	3005A	RA		320447	08/27/16 11:31	DN1	TAL PEN
Total Recoverable	Analysis	6020	RA	5	320857	08/30/16 14:07	RJB	TAL PEN
Total Recoverable	Prep	3005A	RADL		320447	08/27/16 11:31	DN1	TAL PEN
Total Recoverable	Analysis	6020	RADL	25	320857	08/30/16 15:44	RJB	TAL PEN
Total/NA	Prep	7470A			320064	08/25/16 11:53	JAP	TAL PEN
Total/NA	Analysis	7470A		1	320309	08/26/16 13:57	JAP	TAL PEN
Total/NA	Analysis	SM 2540C		1	320493	08/27/16 15:23	TET	TAL PEN

Client Sample ID: EQB-7

Date Collected: 08/22/16 15:25

Date Received: 08/23/16 09:22

Lab Sample ID: 400-126211-3

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	300.0		1	321039	09/01/16 06:41	KH1	TAL PEN
Total Recoverable	Prep	3005A			320447	08/27/16 11:31	DN1	TAL PEN
Total Recoverable	Analysis	6020		5	320709	08/29/16 21:40	RJB	TAL PEN
Total Recoverable	Prep	3005A	RA		320447	08/27/16 11:31	DN1	TAL PEN
Total Recoverable	Analysis	6020	RA	5	320857	08/30/16 14:29	RJB	TAL PEN
Total/NA	Prep	7470A			320064	08/25/16 11:53	JAP	TAL PEN
Total/NA	Analysis	7470A		1	320309	08/26/16 14:06	JAP	TAL PEN
Total/NA	Analysis	SM 2540C		1	320493	08/27/16 15:23	TET	TAL PEN

TestAmerica Pensacola

Lab Chronicle

Client: Southern Company
Project/Site: CCR Plant Scherer

TestAmerica Job ID: 400-126211-1

Client Sample ID: GWC-8

Date Collected: 08/23/16 12:14

Date Received: 08/24/16 09:59

Lab Sample ID: 400-126211-4

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	300.0		1	321039	09/01/16 13:56	KH1	TAL PEN
Total Recoverable	Prep	3005A			320680	08/30/16 08:30	RJB	TAL PEN
Total Recoverable	Analysis	6020		5	320857	08/30/16 19:21	RJB	TAL PEN
Total/NA	Prep	7470A			320064	08/25/16 11:53	JAP	TAL PEN
Total/NA	Analysis	7470A		1	320309	08/26/16 14:07	JAP	TAL PEN
Total/NA	Analysis	SM 2540C		1	320493	08/27/16 15:23	TET	TAL PEN

Laboratory References:

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

QC Association Summary

Client: Southern Company
Project/Site: CCR Plant Scherer

TestAmerica Job ID: 400-126211-1

HPLC/IC

Analysis Batch: 321039

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-126211-1	SGWC-19	Total/NA	Water	300.0	
400-126211-2	SGWC-18	Total/NA	Water	300.0	
400-126211-3	EQB-7	Total/NA	Water	300.0	
400-126211-4	GWC-8	Total/NA	Water	300.0	
MB 400-321039/34	Method Blank	Total/NA	Water	300.0	
LCS 400-321039/35	Lab Control Sample	Total/NA	Water	300.0	
LCS 400-321039/36	Lab Control Sample Dup	Total/NA	Water	300.0	
400-126211-1 MS	SGWC-19	Total/NA	Water	300.0	
400-126211-1 MSD	SGWC-19	Total/NA	Water	300.0	

Analysis Batch: 321170

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-126211-1	SGWC-19	Total/NA	Water	300.0	
400-126211-2	SGWC-18	Total/NA	Water	300.0	
MB 400-321170/10	Method Blank	Total/NA	Water	300.0	
LCS 400-321170/11	Lab Control Sample	Total/NA	Water	300.0	
LCS 400-321170/12	Lab Control Sample Dup	Total/NA	Water	300.0	
400-126207-A-1 MS	Matrix Spike	Total/NA	Water	300.0	
400-126207-A-1 MSD	Matrix Spike Duplicate	Total/NA	Water	300.0	

Metals

Prep Batch: 320064

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-126211-1	SGWC-19	Total/NA	Water	7470A	
400-126211-2	SGWC-18	Total/NA	Water	7470A	
400-126211-3	EQB-7	Total/NA	Water	7470A	
400-126211-4	GWC-8	Total/NA	Water	7470A	
MB 400-320064/14-A	Method Blank	Total/NA	Water	7470A	
LCS 400-320064/15-A	Lab Control Sample	Total/NA	Water	7470A	
400-126268-B-1-B MS	Matrix Spike	Total/NA	Water	7470A	
400-126268-B-1-C MSD	Matrix Spike Duplicate	Total/NA	Water	7470A	

Analysis Batch: 320309

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-126211-1	SGWC-19	Total/NA	Water	7470A	320064
400-126211-2	SGWC-18	Total/NA	Water	7470A	320064
400-126211-3	EQB-7	Total/NA	Water	7470A	320064
400-126211-4	GWC-8	Total/NA	Water	7470A	320064
MB 400-320064/14-A	Method Blank	Total/NA	Water	7470A	320064
LCS 400-320064/15-A	Lab Control Sample	Total/NA	Water	7470A	320064
400-126268-B-1-B MS	Matrix Spike	Total/NA	Water	7470A	320064
400-126268-B-1-C MSD	Matrix Spike Duplicate	Total/NA	Water	7470A	320064

Prep Batch: 320447

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-126211-1	SGWC-19	Total Recoverable	Water	3005A	
400-126211-1 - RA	SGWC-19	Total Recoverable	Water	3005A	
400-126211-1 - RADL	SGWC-19	Total Recoverable	Water	3005A	
400-126211-2	SGWC-18	Total Recoverable	Water	3005A	

TestAmerica Pensacola

QC Association Summary

Client: Southern Company
Project/Site: CCR Plant Scherer

TestAmerica Job ID: 400-126211-1

Metals (Continued)

Prep Batch: 320447 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-126211-2 - RA	SGWC-18	Total Recoverable	Water	3005A	
400-126211-2 - RADL	SGWC-18	Total Recoverable	Water	3005A	
400-126211-3	EQB-7	Total Recoverable	Water	3005A	
400-126211-3 - RA	EQB-7	Total Recoverable	Water	3005A	
MB 400-320447/1-A ^5	Method Blank	Total Recoverable	Water	3005A	
LCS 400-320447/2-A ^1	Lab Control Sample	Total Recoverable	Water	3005A	
400-126207-B-2-D MS	Matrix Spike	Total Recoverable	Water	3005A	
400-126207-B-2-E MSD	Matrix Spike Duplicate	Total Recoverable	Water	3005A	

Prep Batch: 320680

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-126211-4	GWC-8	Total Recoverable	Water	3005A	
MB 400-320680/1-A ^5	Method Blank	Total Recoverable	Water	3005A	
LCS 400-320680/2-A ^1	Lab Control Sample	Total Recoverable	Water	3005A	
400-126337-I-8-C MS ^5	Matrix Spike	Total Recoverable	Water	3005A	
400-126337-I-8-D MSD ^5	Matrix Spike Duplicate	Total Recoverable	Water	3005A	

Analysis Batch: 320709

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-126211-1	SGWC-19	Total Recoverable	Water	6020	320447
400-126211-2	SGWC-18	Total Recoverable	Water	6020	320447
400-126211-3	EQB-7	Total Recoverable	Water	6020	320447
MB 400-320447/1-A ^5	Method Blank	Total Recoverable	Water	6020	320447
LCS 400-320447/2-A ^1	Lab Control Sample	Total Recoverable	Water	6020	320447
400-126207-B-2-D MS	Matrix Spike	Total Recoverable	Water	6020	320447
400-126207-B-2-E MSD	Matrix Spike Duplicate	Total Recoverable	Water	6020	320447

Analysis Batch: 320857

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-126211-1 - RA	SGWC-19	Total Recoverable	Water	6020	320447
400-126211-1 - RADL	SGWC-19	Total Recoverable	Water	6020	320447
400-126211-2 - RA	SGWC-18	Total Recoverable	Water	6020	320447
400-126211-2 - RADL	SGWC-18	Total Recoverable	Water	6020	320447
400-126211-3 - RA	EQB-7	Total Recoverable	Water	6020	320447
400-126211-4	GWC-8	Total Recoverable	Water	6020	320680
MB 400-320680/1-A ^5	Method Blank	Total Recoverable	Water	6020	320680
LCS 400-320680/2-A ^1	Lab Control Sample	Total Recoverable	Water	6020	320680
400-126337-I-8-C MS ^5	Matrix Spike	Total Recoverable	Water	6020	320680
400-126337-I-8-D MSD ^5	Matrix Spike Duplicate	Total Recoverable	Water	6020	320680

General Chemistry

Analysis Batch: 320493

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-126211-1	SGWC-19	Total/NA	Water	SM 2540C	
400-126211-2	SGWC-18	Total/NA	Water	SM 2540C	
400-126211-3	EQB-7	Total/NA	Water	SM 2540C	
400-126211-4	GWC-8	Total/NA	Water	SM 2540C	
MB 400-320493/1	Method Blank	Total/NA	Water	SM 2540C	
LCS 400-320493/2	Lab Control Sample	Total/NA	Water	SM 2540C	

TestAmerica Pensacola

QC Association Summary

Client: Southern Company
Project/Site: CCR Plant Scherer

TestAmerica Job ID: 400-126211-1

General Chemistry (Continued)

Analysis Batch: 320493 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-126211-4 DU	GWC-8	Total/NA	Water	SM 2540C	

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

QC Sample Results

Client: Southern Company
Project/Site: CCR Plant Scherer

TestAmerica Job ID: 400-126211-1

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 400-321039/34
Matrix: Water
Analysis Batch: 321039

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<0.89		1.0	0.89	mg/L			09/01/16 02:52	1
Fluoride	<0.082		0.20	0.082	mg/L			09/01/16 02:52	1
Sulfate	<0.70		1.0	0.70	mg/L			09/01/16 02:52	1

Lab Sample ID: LCS 400-321039/35
Matrix: Water
Analysis Batch: 321039

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloride	10.0	9.79		mg/L		98	90 - 110
Fluoride	10.0	10.1		mg/L		101	90 - 110
Sulfate	10.0	10.0		mg/L		100	90 - 110

Lab Sample ID: LCSD 400-321039/36
Matrix: Water
Analysis Batch: 321039

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
Chloride	10.0	<0.89	*	mg/L		0.2	90 - 110	199	15
Fluoride	10.0	<0.082	*	mg/L		0.2	90 - 110	199	15
Sulfate	10.0	<0.70	*	mg/L		0.2	90 - 110	199	15

Lab Sample ID: 400-126211-1 MS
Matrix: Water
Analysis Batch: 321039

Client Sample ID: SGWC-19
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloride	8.2	*	10.0	18.8		mg/L		106	80 - 120
Fluoride	<0.082	*	10.0	11.3		mg/L		113	80 - 120

Lab Sample ID: 400-126211-1 MSD
Matrix: Water
Analysis Batch: 321039

Client Sample ID: SGWC-19
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Chloride	8.2	*	10.0	18.8		mg/L		106	80 - 120	0	20
Fluoride	<0.082	*	10.0	11.4		mg/L		114	80 - 120	1	20

Lab Sample ID: MB 400-321170/10
Matrix: Water
Analysis Batch: 321170

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<0.89		1.0	0.89	mg/L			09/01/16 16:58	1
Fluoride	<0.082		0.20	0.082	mg/L			09/01/16 16:58	1
Sulfate	<0.70		1.0	0.70	mg/L			09/01/16 16:58	1

TestAmerica Pensacola

QC Sample Results

Client: Southern Company
Project/Site: CCR Plant Scherer

TestAmerica Job ID: 400-126211-1

Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: LCS 400-321170/11
Matrix: Water
Analysis Batch: 321170

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloride	10.0	9.75		mg/L		97	90 - 110
Fluoride	10.0	10.3		mg/L		103	90 - 110
Sulfate	10.0	9.90		mg/L		99	90 - 110

Lab Sample ID: LCSD 400-321170/12
Matrix: Water
Analysis Batch: 321170

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
Chloride	10.0	9.74		mg/L		97	90 - 110	0	15
Fluoride	10.0	10.3		mg/L		103	90 - 110	0	15
Sulfate	10.0	10.2		mg/L		102	90 - 110	3	15

Lab Sample ID: 400-126207-A-1 MS
Matrix: Water
Analysis Batch: 321170

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	8.3		50.0	60.2		mg/L		104	80 - 120
Fluoride	<0.41		50.0	55.3		mg/L		111	80 - 120
Sulfate	78		50.0	129		mg/L		101	80 - 120

Lab Sample ID: 400-126207-A-1 MSD
Matrix: Water
Analysis Batch: 321170

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	8.3		50.0	59.9		mg/L		103	80 - 120	0	20
Fluoride	<0.41		50.0	55.0		mg/L		110	80 - 120	1	20
Sulfate	78		50.0	130		mg/L		103	80 - 120	1	20

Method: 6020 - Metals (ICP/MS)

Lab Sample ID: MB 400-320447/1-A ^5
Matrix: Water
Analysis Batch: 320709

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 320447

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0010		0.0025	0.0010	mg/L		08/27/16 11:31	08/29/16 20:28	5
Arsenic	<0.00046		0.0013	0.00046	mg/L		08/27/16 11:31	08/29/16 20:28	5
Barium	<0.00049		0.0025	0.00049	mg/L		08/27/16 11:31	08/29/16 20:28	5
Beryllium	<0.00034		0.0025	0.00034	mg/L		08/27/16 11:31	08/29/16 20:28	5
Boron	<0.021		0.050	0.021	mg/L		08/27/16 11:31	08/29/16 20:28	5
Cadmium	<0.00034		0.0025	0.00034	mg/L		08/27/16 11:31	08/29/16 20:28	5
Calcium	<0.13		0.25	0.13	mg/L		08/27/16 11:31	08/29/16 20:28	5
Chromium	<0.0011		0.0025	0.0011	mg/L		08/27/16 11:31	08/29/16 20:28	5
Cobalt	<0.00040		0.0025	0.00040	mg/L		08/27/16 11:31	08/29/16 20:28	5
Lead	<0.00035		0.0013	0.00035	mg/L		08/27/16 11:31	08/29/16 20:28	5
Lithium	<0.0032		0.0050	0.0032	mg/L		08/27/16 11:31	08/29/16 20:28	5

TestAmerica Pensacola

QC Sample Results

Client: Southern Company
Project/Site: CCR Plant Scherer

TestAmerica Job ID: 400-126211-1

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

Lab Sample ID: MB 400-320447/1-A ^5
Matrix: Water
Analysis Batch: 320709

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 320447

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Molybdenum	<0.00085		0.015	0.00085	mg/L		08/27/16 11:31	08/29/16 20:28	5
Selenium	<0.00024		0.0013	0.00024	mg/L		08/27/16 11:31	08/29/16 20:28	5
Thallium	<0.00085		0.00050	0.000085	mg/L		08/27/16 11:31	08/29/16 20:28	5

Lab Sample ID: LCS 400-320447/2-A ^1
Matrix: Water
Analysis Batch: 320709

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 320447

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	Limits
Antimony	0.0500	0.0512		mg/L		102	80 - 120
Arsenic	0.0500	0.0552		mg/L		110	80 - 120
Barium	0.0500	0.0455		mg/L		91	80 - 120
Beryllium	0.0500	0.0474		mg/L		95	80 - 120
Boron	0.100	0.0967		mg/L		97	80 - 120
Cadmium	0.0500	0.0482		mg/L		96	80 - 120
Calcium	5.00	4.98		mg/L		100	80 - 120
Chromium	0.0500	0.0504		mg/L		101	80 - 120
Cobalt	0.0500	0.0538		mg/L		108	80 - 120
Lead	0.0500	0.0525		mg/L		105	80 - 120
Lithium	0.0500	0.0505		mg/L		101	80 - 120
Molybdenum	0.0500	0.0503		mg/L		101	80 - 120
Selenium	0.0500	0.0506		mg/L		101	80 - 120
Thallium	0.0100	0.00980		mg/L		98	80 - 120

Lab Sample ID: 400-126207-B-2-D MS
Matrix: Water
Analysis Batch: 320709

Client Sample ID: Matrix Spike
Prep Type: Total Recoverable
Prep Batch: 320447

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	Limits
Antimony	<0.0010		0.0500	0.0514		mg/L		103	75 - 125
Arsenic	0.0010	J	0.0500	0.0555		mg/L		109	75 - 125
Barium	0.038		0.0500	0.0825		mg/L		90	75 - 125
Beryllium	0.00074	J	0.0500	0.0488		mg/L		96	75 - 125
Cadmium	<0.00034		0.0500	0.0456		mg/L		91	75 - 125
Calcium	15		5.00	20.8		mg/L		109	75 - 125
Chromium	<0.0011		0.0500	0.0495		mg/L		99	75 - 125
Cobalt	0.25		0.0500	0.297	4	mg/L		104	75 - 125
Lead	<0.00035		0.0500	0.0538		mg/L		108	75 - 125
Lithium	0.0051		0.0500	0.0548		mg/L		99	75 - 125
Molybdenum	<0.00085		0.0500	0.0505		mg/L		101	75 - 125
Selenium	0.0012	J	0.0500	0.0504		mg/L		98	75 - 125
Thallium	0.00018	J	0.0100	0.0101		mg/L		99	75 - 125

Lab Sample ID: 400-126207-B-2-E MSD
Matrix: Water
Analysis Batch: 320709

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total Recoverable
Prep Batch: 320447

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Antimony	<0.0010		0.0500	0.0506		mg/L		101	75 - 125	2	20

TestAmerica Pensacola

QC Sample Results

Client: Southern Company
Project/Site: CCR Plant Scherer

TestAmerica Job ID: 400-126211-1

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

Lab Sample ID: 400-126207-B-2-E MSD
Matrix: Water
Analysis Batch: 320709

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total Recoverable
Prep Batch: 320447

Analyte	Sample	Sample	Spike	MSD	MSD	Unit	D	%Rec	%Rec.	RPD	Limit
	Result	Qualifier	Added	Result	Qualifier				Limits		
Arsenic	0.0010	J	0.0500	0.0565		mg/L		111	75 - 125	2	20
Barium	0.038		0.0500	0.0843		mg/L		94	75 - 125	2	20
Beryllium	0.00074	J	0.0500	0.0497		mg/L		98	75 - 125	2	20
Cadmium	<0.00034		0.0500	0.0488		mg/L		98	75 - 125	7	20
Calcium	15		5.00	20.8		mg/L		108	75 - 125	0	20
Chromium	<0.0011		0.0500	0.0499		mg/L		100	75 - 125	1	20
Cobalt	0.25		0.0500	0.301	4	mg/L		112	75 - 125	1	20
Lead	<0.00035		0.0500	0.0538		mg/L		108	75 - 125	0	20
Lithium	0.0051		0.0500	0.0557		mg/L		101	75 - 125	2	20
Molybdenum	<0.00085		0.0500	0.0508		mg/L		102	75 - 125	1	20
Selenium	0.0012	J	0.0500	0.0505		mg/L		99	75 - 125	0	20
Thallium	0.00018	J	0.0100	0.0100		mg/L		99	75 - 125	1	20

Lab Sample ID: MB 400-320680/1-A ^5
Matrix: Water
Analysis Batch: 320857

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 320680

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Antimony	<0.0010		0.0025	0.0010	mg/L		08/30/16 08:30	08/30/16 18:58	5
Arsenic	<0.00046		0.0013	0.00046	mg/L		08/30/16 08:30	08/30/16 18:58	5
Barium	<0.00049		0.0025	0.00049	mg/L		08/30/16 08:30	08/30/16 18:58	5
Beryllium	<0.00034		0.0025	0.00034	mg/L		08/30/16 08:30	08/30/16 18:58	5
Boron	<0.021		0.050	0.021	mg/L		08/30/16 08:30	08/30/16 18:58	5
Cadmium	<0.00034		0.0025	0.00034	mg/L		08/30/16 08:30	08/30/16 18:58	5
Calcium	<0.13		0.25	0.13	mg/L		08/30/16 08:30	08/30/16 18:58	5
Chromium	<0.0011		0.0025	0.0011	mg/L		08/30/16 08:30	08/30/16 18:58	5
Cobalt	<0.00040		0.0025	0.00040	mg/L		08/30/16 08:30	08/30/16 18:58	5
Lead	<0.00035	^	0.0013	0.00035	mg/L		08/30/16 08:30	08/30/16 18:58	5
Lithium	<0.0032		0.0050	0.0032	mg/L		08/30/16 08:30	08/30/16 18:58	5
Molybdenum	<0.00085		0.015	0.00085	mg/L		08/30/16 08:30	08/30/16 18:58	5
Selenium	<0.00024		0.0013	0.00024	mg/L		08/30/16 08:30	08/30/16 18:58	5
Thallium	<0.00085	^	0.00050	0.00085	mg/L		08/30/16 08:30	08/30/16 18:58	5

Lab Sample ID: LCS 400-320680/2-A ^1
Matrix: Water
Analysis Batch: 320857

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 320680

Analyte	Spike Added	LCS	LCS	Unit	D	%Rec	%Rec.
		Result	Qualifier				Limits
Antimony	0.0500	0.0522		mg/L		104	80 - 120
Arsenic	0.0500	0.0559		mg/L		112	80 - 120
Barium	0.0500	0.0493		mg/L		99	80 - 120
Beryllium	0.0500	0.0461		mg/L		92	80 - 120
Boron	0.100	0.0949		mg/L		95	80 - 120
Cadmium	0.0500	0.0496		mg/L		99	80 - 120
Calcium	5.00	4.83		mg/L		97	80 - 120
Chromium	0.0500	0.0510		mg/L		102	80 - 120
Cobalt	0.0500	0.0525		mg/L		105	80 - 120
Lead	0.0500	0.0500	^	mg/L		100	80 - 120
Lithium	0.0500	0.0493		mg/L		99	80 - 120

TestAmerica Pensacola

QC Sample Results

Client: Southern Company
Project/Site: CCR Plant Scherer

TestAmerica Job ID: 400-126211-1

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

Lab Sample ID: LCS 400-320680/2-A ^1
Matrix: Water
Analysis Batch: 320857

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 320680

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Molybdenum	0.0500	0.0496		mg/L		99	80 - 120
Selenium	0.0500	0.0504		mg/L		101	80 - 120
Thallium	0.0100	0.00993	^	mg/L		99	80 - 120

Lab Sample ID: 400-126337-I-8-C MS ^5
Matrix: Water
Analysis Batch: 320857

Client Sample ID: Matrix Spike
Prep Type: Total Recoverable
Prep Batch: 320680

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Antimony	<0.0010		0.0500	0.0541		mg/L		108	75 - 125
Arsenic	<0.00046		0.0500	0.0580		mg/L		116	75 - 125
Barium	0.059		0.0500	0.107		mg/L		95	75 - 125
Beryllium	<0.00034		0.0500	0.0471		mg/L		94	75 - 125
Boron	<0.021		0.100	0.113		mg/L		113	75 - 125
Cadmium	<0.00034		0.0500	0.0501		mg/L		100	75 - 125
Calcium	2.3		5.00	7.05		mg/L		95	75 - 125
Chromium	0.0030		0.0500	0.0533		mg/L		101	75 - 125
Cobalt	0.0014	J	0.0500	0.0542		mg/L		106	75 - 125
Lead	<0.00035		0.0500	0.0520		mg/L		104	75 - 125
Lithium	<0.0032		0.0500	0.0501		mg/L		100	75 - 125
Molybdenum	<0.00085		0.0500	0.0515		mg/L		103	75 - 125
Selenium	<0.00024	^	0.0500	0.0515	^	mg/L		103	75 - 125
Thallium	<0.00085		0.0100	0.0100		mg/L		100	75 - 125

Lab Sample ID: 400-126337-I-8-D MSD ^5
Matrix: Water
Analysis Batch: 320857

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total Recoverable
Prep Batch: 320680

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	Limit
Antimony	<0.0010		0.0500	0.0531		mg/L		106	75 - 125	2	20
Arsenic	<0.00046		0.0500	0.0562		mg/L		112	75 - 125	3	20
Barium	0.059		0.0500	0.107		mg/L		96	75 - 125	0	20
Beryllium	<0.00034		0.0500	0.0491		mg/L		98	75 - 125	4	20
Boron	<0.021		0.100	0.110		mg/L		110	75 - 125	3	20
Cadmium	<0.00034		0.0500	0.0486		mg/L		97	75 - 125	3	20
Calcium	2.3		5.00	7.21		mg/L		98	75 - 125	2	20
Chromium	0.0030		0.0500	0.0537		mg/L		101	75 - 125	1	20
Cobalt	0.0014	J	0.0500	0.0537		mg/L		105	75 - 125	1	20
Lead	<0.00035		0.0500	0.0514		mg/L		103	75 - 125	1	20
Lithium	<0.0032		0.0500	0.0508		mg/L		102	75 - 125	1	20
Molybdenum	<0.00085		0.0500	0.0502		mg/L		100	75 - 125	2	20
Selenium	<0.00024	^	0.0500	0.0511	^	mg/L		102	75 - 125	1	20
Thallium	<0.00085		0.0100	0.00988		mg/L		99	75 - 125	1	20

TestAmerica Pensacola

QC Sample Results

Client: Southern Company
Project/Site: CCR Plant Scherer

TestAmerica Job ID: 400-126211-1

Method: 7470A - Mercury (CVAA)

Lab Sample ID: MB 400-320064/14-A
Matrix: Water
Analysis Batch: 320309

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 320064

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.000070		0.00020	0.000070	mg/L		08/25/16 08:56	08/26/16 13:29	1

Lab Sample ID: LCS 400-320064/15-A
Matrix: Water
Analysis Batch: 320309

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 320064

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	Limits
Mercury	0.00101	0.000944		mg/L		94	80 - 120

Lab Sample ID: 400-126268-B-1-B MS
Matrix: Water
Analysis Batch: 320309

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 320064

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	Limits
Mercury	<0.000070		0.00201	0.00193		mg/L		96	80 - 120

Lab Sample ID: 400-126268-B-1-C MSD
Matrix: Water
Analysis Batch: 320309

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA
Prep Batch: 320064

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Mercury	<0.000070		0.00201	0.00188		mg/L		94	80 - 120	2	20

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

Lab Sample ID: MB 400-320493/1
Matrix: Water
Analysis Batch: 320493

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	<3.4		5.0	3.4	mg/L			08/27/16 15:23	1

Lab Sample ID: LCS 400-320493/2
Matrix: Water
Analysis Batch: 320493

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	Limits
Total Dissolved Solids	293	284		mg/L		97	78 - 122

Lab Sample ID: 400-126211-4 DU
Matrix: Water
Analysis Batch: 320493

Client Sample ID: GWC-8
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	Limit
Total Dissolved Solids	140		140		mg/L		0	5

TestAmerica Pensacola

Chain of Custody Record

Client Information Client Contact: Joju Abraham Company: Southern Company		Lab PM: Whitmore, Cheyenne R E-Mail: cheyenne.whitmore@testamerica.com		Carrier Tracking No(s): 400-57303-24790.10	
Address: 241 Ralph McGill Blvd SE B10185 City: Atlanta State, Zip: GA, 30308 Phone: 404-506-7239 Email: JAbraham@southernco.com		Due Date Requested: TAT Requested (days): Standard TAT		Analysis Requested Radium 226 & 228 - SW-846 9316 & 9320 Metals Appendix III & IV - EPA 6020 & EPA 7470 TDS - SM 2640C; Cl,F,SO4 - EPA 300	
Project Name: CCR - Scherer Site: plant scherer		PO #: GPC10624814 WC #: 40007041 Project #: 40007041 SSOW#		Preservation Codes: A - HCl B - NaOH C - AsNaO2 D - Nitric Acid E - NaHSO4 F - MeOH G - Amchlor H - Ascorbic Acid I - Ice J - DI Water K - EDTA L - EDA Other:	
Sample Identification SGWC-19 SGWC-18 EQB-7		Sample Date 8/22/16 8/22/16 8/22/16		Sample Time 1040 1408 1525	
Sample Type (C=Comp, G=grab) G G G		Matrix (W=water, S=solid, O=wasteoil, I=In-house, A=air) Water Water Water Water Water Water Water Water Water Water Water		Field Filtered Sample (Yes or No) X X X	
Total Number of Containers 3 3 3		Special Instructions/Note: 400-126211 COC		Preservation Codes: 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 Z - other (specify)	
Possible Hazard Identification <input checked="" type="checkbox"/> Non-Hazard <input type="checkbox"/> Flammable <input type="checkbox"/> Skin Irritant <input type="checkbox"/> Poison B <input type="checkbox"/> Unknown <input type="checkbox"/> Radiological					
Deliverable Requested: I, II, III, IV, Other (specify)					
Sample Disposal (A fee may be assessed if samples are retained longer than 1 month) <input type="checkbox"/> Return To Client <input checked="" type="checkbox"/> Disposal By Lab <input type="checkbox"/> Archive For _____ Months					
Special Instructions/QC Requirements:					
Empty Kit Relinquished by:		Date:		Method of Shipment:	
Relinquished by:		Date/Time: 8/22/16 1830		Received by: Fetex 0221 6546 Date/Time: 8/23/16 0922	
Relinquished by:		Date/Time:		Received by:	
Relinquished by:		Date/Time:		Received by:	
Custody Seals Intact:		Custody Seal No.:		Cooler Temperature(s) °C and Other Remarks: 1.7°C 1RS	



Chain of Custody Record

Client Information		Lab PIV: Whitmire, Cheyenne R		Carrier Tracking No(s): 65468845989		COC No: 400-57303-24790.11	
Client Contact: Joju Abraham		E-Mail: cheyenne.whitmire@testamericainc.com		Phone: 770-315-9696		Page:	
Company: Southern Company		Due Date Requested:		Analysis Requested		Job #:	
Address: 241 Ralph McGill Blvd SE B10185		TAT Requested (days):		Metals Appendix III & IV - EPA 6020 & EPA 7470		Preservation Codes:	
City: Atlanta		Standard TAT		TDS - SM 2640C; Cl, F, SO4 - EPA 300		M - Hexane	
State Zip: GA, 30308		PO #: GPC10624814		Field Filtered Sample (Yes or No)		N - None	
Phone: 404-506-7239		WO #:		Matrix (W=water, S=solid, O=wastewater, G=grab, S=static, A=soil)		O - AsNaO2	
Email: JAbraham@southernco.com		Project #:		Sample Type (C=Comp, G=grab)		P - Na2O4S	
Project Name: CCR - Scherer		40007041		Sample Time		Q - NaHSO4	
Site: Plant Scherer		SSOW#:		Sample Date		R - Na2SO3	
Sample Identification: 6WLC-8		9/23/16		12:14		S - H2SO4	
Sample Date		9/23/16		12:14		T - TSP Dodecahydrate	
Sample Time		12:14		12:14		U - Acetone	
Sample Date		9/23/16		12:14		V - MCAA	
Sample Time		12:14		12:14		W - ph 4-5	
Sample Date		9/23/16		12:14		Z - other (specify)	
Sample Time		12:14		12:14		Other:	
Sample Date		9/23/16		12:14		Total Number of Containers: 3	
Sample Time		12:14		12:14		Special Instructions/Note:	
Sample Date		9/23/16		12:14		400-126211 COC	
Sample Time		12:14		12:14		QR Code	
Sample Date		9/23/16		12:14		Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)	
Sample Time		12:14		12:14		<input type="checkbox"/> Return To Client <input checked="" type="checkbox"/> Disposal By Lab <input type="checkbox"/> Archive For _____ Months	
Sample Date		9/23/16		12:14		Special Instructions/QC Requirements:	
Sample Time		12:14		12:14		Method of Shipment:	
Sample Date		9/23/16		12:14		Received by: [Signature]	
Sample Time		12:14		12:14		Date/Time: 8/23/16 16:45	
Sample Date		9/23/16		12:14		Company: AECOM	
Sample Time		12:14		12:14		Received by: [Signature]	
Sample Date		9/23/16		12:14		Date/Time: 8/24/16 9:59	
Sample Time		12:14		12:14		Company: [Blank]	
Sample Date		9/23/16		12:14		Received by: [Signature]	
Sample Time		12:14		12:14		Date/Time: [Blank]	
Sample Date		9/23/16		12:14		Company: [Blank]	
Sample Time		12:14		12:14		Received by: [Signature]	
Sample Date		9/23/16		12:14		Date/Time: [Blank]	
Sample Time		12:14		12:14		Company: [Blank]	
Sample Date		9/23/16		12:14		Received by: [Signature]	
Sample Time		12:14		12:14		Date/Time: [Blank]	
Sample Date		9/23/16		12:14		Cooler Temperature(s) °C and Other Remarks: [Blank]	
Sample Time		12:14		12:14		Custody Seal No.:	
Sample Date		9/23/16		12:14		A Yes Δ No	



Login Sample Receipt Checklist

Client: Southern Company

Job Number: 400-126211-1

SDG Number:

Login Number: 126211

List Number: 1

Creator: Chambers, Cheryle A

List Source: TestAmerica Pensacola

Question	Answer	Comment
Radioactivity wasn't checked or is \leq background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	N/A	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	1.2°C IR-5, 2.9°C IR-6
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 <math><6\text{mm}</math> (1/4").	N/A	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

Certification Summary

Client: Southern Company
Project/Site: CCR Plant Scherer

TestAmerica Job ID: 400-126211-1

Laboratory: TestAmerica Pensacola

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

Authority	Program	EPA Region	Certification ID	Expiration Date
Alabama	State Program	4	40150	06-30-17
Arizona	State Program	9	AZ0710	01-11-17
Arkansas DEQ	State Program	6	88-0689	09-01-16 *
California	ELAP	9	2510	03-31-18
Florida	NELAP	4	E81010	06-30-17
Georgia	State Program	4	N/A	06-30-17
Illinois	NELAP	5	200041	10-09-16
Iowa	State Program	7	367	07-31-16 *
Kansas	NELAP	7	E-10253	10-31-16
Kentucky (UST)	State Program	4	53	06-30-17
Kentucky (WW)	State Program	4	98030	12-31-16
Louisiana	NELAP	6	30976	06-30-17
Maryland	State Program	3	233	09-30-17
Massachusetts	State Program	1	M-FL094	06-30-17
Michigan	State Program	5	9912	05-06-17
New Jersey	NELAP	2	FL006	06-30-17
North Carolina (WW/SW)	State Program	4	314	12-31-16
Oklahoma	State Program	6	9810	08-31-17
Pennsylvania	NELAP	3	68-00467	01-31-17
Rhode Island	State Program	1	LAO00307	12-30-16
South Carolina	State Program	4	96026	06-30-16 *
Tennessee	State Program	4	TN02907	06-30-17
Texas	NELAP	6	T104704286-15-9	09-30-16
USDA	Federal		P330-16-00172	05-24-19
Virginia	NELAP	3	460166	06-14-17
Washington	State Program	10	C915	05-15-17
West Virginia DEP	State Program	3	136	08-31-16 *

* Certification renewal pending - certification considered valid.

TestAmerica Pensacola

TestAmerica

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ANALYTICAL REPORT

TestAmerica Laboratories, Inc.

TestAmerica Pensacola

3355 McLemore Drive

Pensacola, FL 32514

Tel: (850)474-1001

TestAmerica Job ID: 400-126211-2

Client Project/Site: CCR Plant Scherer

For:

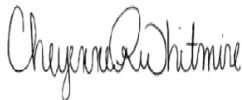
Southern Company

241 Ralph McGill Blvd SE

B10185

Atlanta, Georgia 30308

Attn: Joju Abraham



Authorized for release by:

9/23/2016 1:20:15 PM

Cheyenne Whitmire, Project Manager II

(850)471-6222

cheyenne.whitmire@testamericainc.com

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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.

1

2

3

4

5

6

7

8

9

10

11

12

13



Table of Contents

Cover Page	1
Table of Contents	2
Case Narrative	3
Method Summary	4
Sample Summary	5
Client Sample Results	6
Definitions	10
Chronicle	11
QC Association	12
QC Sample Results	13
Chain of Custody	15
Receipt Checklists	17
Certification Summary	18

Case Narrative

Client: Southern Company
Project/Site: CCR Plant Scherer

TestAmerica Job ID: 400-126211-2

Job ID: 400-126211-2

Laboratory: TestAmerica Pensacola

Narrative

Job Narrative 400-126211-2

RAD

Method(s) PrecSep_0: Radium-228 Prep Batch 160-267411: Insufficient sample volume was available to perform a sample duplicate (DUP) for the following samples: SGWC-19 (400-126211-1), SGWC-18 (400-126211-2), EQB-7 (400-126211-3) and GWC-8 (400-126211-4). A laboratory control sample/ laboratory control sample duplicate (LCS/LCSD) were prepared instead to demonstrate batch precision.

Method(s) PrecSep-21: Radium-226 Prep Batch 160-267408: Insufficient sample volume was available to perform a sample duplicate (DUP) for the following samples: SGWC-19 (400-126211-1), SGWC-18 (400-126211-2), EQB-7 (400-126211-3) and GWC-8 (400-126211-4). A laboratory control sample/ laboratory control sample duplicate (LCS/LCSD) were prepared instead to demonstrate batch precision.



Method Summary

Client: Southern Company
Project/Site: CCR Plant Scherer

TestAmerica Job ID: 400-126211-2

Method	Method Description	Protocol	Laboratory
9315	Radium-226 (GFPC)	SW846	TAL SL
9320	Radium-228 (GFPC)	SW846	TAL SL
Ra226_Ra228	Combined Radium-226 and Radium-228	TAL-STL	TAL SL

Protocol References:

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:

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



Sample Summary

Client: Southern Company
Project/Site: CCR Plant Scherer

TestAmerica Job ID: 400-126211-2

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
400-126211-1	SGWC-19	Water	08/22/16 10:40	08/23/16 09:22
400-126211-2	SGWC-18	Water	08/22/16 14:08	08/23/16 09:22
400-126211-3	EQB-7	Water	08/22/16 15:25	08/23/16 09:22
400-126211-4	GWC-8	Water	08/23/16 12:14	08/24/16 09:59

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Client Sample Results

Client: Southern Company
Project/Site: CCR Plant Scherer

TestAmerica Job ID: 400-126211-2

Client Sample ID: SGWC-19

Lab Sample ID: 400-126211-1

Date Collected: 08/22/16 10:40

Matrix: Water

Date Received: 08/23/16 09:22

Method: 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.0405	U	0.0436	0.0437	1.00	0.0697	pCi/L	08/30/16 18:26	09/21/16 21:34	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	86.3		40 - 110					08/30/16 18:26	09/21/16 21:34	1

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	-0.143	U	0.234	0.235	1.00	0.450	pCi/L	08/30/16 18:50	09/14/16 16:51	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	86.3		40 - 110					08/30/16 18:50	09/14/16 16:51	1
Y Carrier	81.9		40 - 110					08/30/16 18:50	09/14/16 16:51	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	-0.102	U	0.239	0.239	5.00	0.450	pCi/L		09/23/16 06:04	1

Client Sample Results

Client: Southern Company
Project/Site: CCR Plant Scherer

TestAmerica Job ID: 400-126211-2

Client Sample ID: SGWC-18

Lab Sample ID: 400-126211-2

Date Collected: 08/22/16 14:08

Matrix: Water

Date Received: 08/23/16 09:22

Method: 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.0129	U	0.0384	0.0384	1.00	0.0711	pCi/L	08/30/16 18:26	09/21/16 21:34	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	91.5		40 - 110					08/30/16 18:26	09/21/16 21:34	1

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.157	U	0.245	0.245	1.00	0.412	pCi/L	08/30/16 18:50	09/14/16 16:51	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	91.5		40 - 110					08/30/16 18:50	09/14/16 16:51	1
Y Carrier	81.9		40 - 110					08/30/16 18:50	09/14/16 16:51	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	0.170	U	0.248	0.248	5.00	0.412	pCi/L		09/23/16 06:04	1

Client Sample Results

Client: Southern Company
Project/Site: CCR Plant Scherer

TestAmerica Job ID: 400-126211-2

Client Sample ID: EQB-7

Lab Sample ID: 400-126211-3

Date Collected: 08/22/16 15:25

Matrix: Water

Date Received: 08/23/16 09:22

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	0.0403	0.0403	1.00	0.0749	pCi/L	08/30/16 18:26	09/21/16 21:34	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	90.6		40 - 110					08/30/16 18:26	09/21/16 21:34	1

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.108	U	0.304	0.304	1.00	0.522	pCi/L	08/30/16 18:50	09/14/16 16:51	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	90.6		40 - 110					08/30/16 18:50	09/14/16 16:51	1
Y Carrier	84.9		40 - 110					08/30/16 18:50	09/14/16 16:51	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	0.120	U	0.307	0.307	5.00	0.522	pCi/L		09/23/16 06:04	1

Client Sample Results

Client: Southern Company
Project/Site: CCR Plant Scherer

TestAmerica Job ID: 400-126211-2

Client Sample ID: GWC-8
Date Collected: 08/23/16 12:14
Date Received: 08/24/16 09:59

Lab Sample ID: 400-126211-4
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	0.0364	U	0.0441	0.0442	1.00	0.0726	pCi/L	08/30/16 18:26	09/22/16 07:17	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	93.2		40 - 110					08/30/16 18:26	09/22/16 07:17	1

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.0160	U	0.239	0.239	1.00	0.425	pCi/L	08/30/16 18:50	09/14/16 16:51	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	93.2		40 - 110					08/30/16 18:50	09/14/16 16:51	1
Y Carrier	84.5		40 - 110					08/30/16 18:50	09/14/16 16:51	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	0.0524	U	0.243	0.243	5.00	0.425	pCi/L		09/23/16 06:04	1

Definitions/Glossary

Client: Southern Company
Project/Site: CCR Plant Scherer

TestAmerica Job ID: 400-126211-2

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
CNF	Contains no Free Liquid
DER	Duplicate error ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision level concentration
MDA	Minimum detectable activity
EDL	Estimated Detection Limit
MDC	Minimum detectable concentration
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
NC	Not Calculated
ND	Not detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RER	Relative error ratio
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)

Lab Chronicle

Client: Southern Company
Project/Site: CCR Plant Scherer

TestAmerica Job ID: 400-126211-2

Client Sample ID: SGWC-19

Date Collected: 08/22/16 10:40

Date Received: 08/23/16 09:22

Lab Sample ID: 400-126211-1

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			267408	08/30/16 18:26	MCJ	TAL SL
Total/NA	Analysis	9315		1	270875	09/21/16 21:34	RTM	TAL SL
Total/NA	Prep	PrecSep_0			267411	08/30/16 18:50	MCJ	TAL SL
Total/NA	Analysis	9320		1	269927	09/14/16 16:51	RTM	TAL SL
Total/NA	Analysis	Ra226_Ra228		1	271225	09/23/16 06:04	ALS	TAL SL

Client Sample ID: SGWC-18

Date Collected: 08/22/16 14:08

Date Received: 08/23/16 09:22

Lab Sample ID: 400-126211-2

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			267408	08/30/16 18:26	MCJ	TAL SL
Total/NA	Analysis	9315		1	270875	09/21/16 21:34	RTM	TAL SL
Total/NA	Prep	PrecSep_0			267411	08/30/16 18:50	MCJ	TAL SL
Total/NA	Analysis	9320		1	269927	09/14/16 16:51	RTM	TAL SL
Total/NA	Analysis	Ra226_Ra228		1	271225	09/23/16 06:04	ALS	TAL SL

Client Sample ID: EQB-7

Date Collected: 08/22/16 15:25

Date Received: 08/23/16 09:22

Lab Sample ID: 400-126211-3

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			267408	08/30/16 18:26	MCJ	TAL SL
Total/NA	Analysis	9315		1	270875	09/21/16 21:34	RTM	TAL SL
Total/NA	Prep	PrecSep_0			267411	08/30/16 18:50	MCJ	TAL SL
Total/NA	Analysis	9320		1	269927	09/14/16 16:51	RTM	TAL SL
Total/NA	Analysis	Ra226_Ra228		1	271225	09/23/16 06:04	ALS	TAL SL

Client Sample ID: GWC-8

Date Collected: 08/23/16 12:14

Date Received: 08/24/16 09:59

Lab Sample ID: 400-126211-4

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			267408	08/30/16 18:26	MCJ	TAL SL
Total/NA	Analysis	9315		1	271155	09/22/16 07:17	RTM	TAL SL
Total/NA	Prep	PrecSep_0			267411	08/30/16 18:50	MCJ	TAL SL
Total/NA	Analysis	9320		1	269927	09/14/16 16:51	RTM	TAL SL
Total/NA	Analysis	Ra226_Ra228		1	271225	09/23/16 06:04	ALS	TAL SL

Laboratory References:

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

QC Association Summary

Client: Southern Company
Project/Site: CCR Plant Scherer

TestAmerica Job ID: 400-126211-2

Rad

Prep Batch: 267408

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-126211-1	SGWC-19	Total/NA	Water	PrecSep-21	
400-126211-2	SGWC-18	Total/NA	Water	PrecSep-21	
400-126211-3	EQB-7	Total/NA	Water	PrecSep-21	
400-126211-4	GWC-8	Total/NA	Water	PrecSep-21	
MB 160-267408/1-A	Method Blank	Total/NA	Water	PrecSep-21	
LCS 160-267408/2-A	Lab Control Sample	Total/NA	Water	PrecSep-21	
LCSD 160-267408/3-A	Lab Control Sample Dup	Total/NA	Water	PrecSep-21	

Prep Batch: 267411

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-126211-1	SGWC-19	Total/NA	Water	PrecSep_0	
400-126211-2	SGWC-18	Total/NA	Water	PrecSep_0	
400-126211-3	EQB-7	Total/NA	Water	PrecSep_0	
400-126211-4	GWC-8	Total/NA	Water	PrecSep_0	
MB 160-267411/1-A	Method Blank	Total/NA	Water	PrecSep_0	
LCS 160-267411/2-A	Lab Control Sample	Total/NA	Water	PrecSep_0	
LCSD 160-267411/3-A	Lab Control Sample Dup	Total/NA	Water	PrecSep_0	

QC Sample Results

Client: Southern Company
Project/Site: CCR Plant Scherer

TestAmerica Job ID: 400-126211-2

Method: 9315 - Radium-226 (GFPC)

Lab Sample ID: MB 160-267408/1-A
Matrix: Water
Analysis Batch: 270875

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 267408

Analyte	MB MB		Count	Total	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
	Result	Qualifier	Uncert. (2σ+/-)	Uncert. (2σ+/-)						
Radium-226	0.03607	U	0.0527	0.0528	1.00	0.0896	pCi/L	08/30/16 18:26	09/21/16 16:04	1
Carrier	MB MB		Limits		Prepared	Analyzed	Dil Fac			
Ba Carrier	%Yield	Qualifier	Limits							
Ba Carrier	83.5		40 - 110		08/30/16 18:26	09/21/16 16:04	1			

Lab Sample ID: LCS 160-267408/2-A
Matrix: Water
Analysis Batch: 271155

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 267408

Analyte	Spike Added	LCS Result	LCS Qual	Total	RL	MDC	Unit	%Rec	%Rec. Limits
				Uncert. (2σ+/-)					
Radium-226	11.2	13.64		1.33	1.00	0.0752	pCi/L	122	68 - 137
Carrier	LCS LCS		Limits		Prepared	Analyzed	Dil Fac		
Ba Carrier	%Yield	Qualifier	Limits						
Ba Carrier	84.6		40 - 110						

Lab Sample ID: LCSD 160-267408/3-A
Matrix: Water
Analysis Batch: 270875

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 267408

Analyte	Spike Added	LCSD Result	LCSD Qual	Total	RL	MDC	Unit	%Rec	%Rec. Limits	RER	RER Limit
				Uncert. (2σ+/-)							
Radium-226	11.2	14.57		1.42	1.00	0.0823	pCi/L	131	68 - 137	0.34	1
Carrier	LCSD LCSD		Limits		Prepared	Analyzed	Dil Fac				
Ba Carrier	%Yield	Qualifier	Limits								
Ba Carrier	75.5		40 - 110								

Method: 9320 - Radium-228 (GFPC)

Lab Sample ID: MB 160-267411/1-A
Matrix: Water
Analysis Batch: 269644

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 267411

Analyte	MB MB		Count	Total	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
	Result	Qualifier	Uncert. (2σ+/-)	Uncert. (2σ+/-)						
Radium-228	0.1552	U	0.267	0.268	1.00	0.452	pCi/L	08/30/16 18:50	09/14/16 16:36	1
Carrier	MB MB		Limits		Prepared	Analyzed	Dil Fac			
Ba Carrier	%Yield	Qualifier	Limits							
Ba Carrier	83.5		40 - 110		08/30/16 18:50	09/14/16 16:36	1			
Y Carrier	%Yield	Qualifier	Limits		Prepared	Analyzed	Dil Fac			
Y Carrier	81.9		40 - 110					08/30/16 18:50	09/14/16 16:36	1

TestAmerica Pensacola

QC Sample Results

Client: Southern Company
Project/Site: CCR Plant Scherer

TestAmerica Job ID: 400-126211-2

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

Lab Sample ID: LCS 160-267411/2-A
Matrix: Water
Analysis Batch: 269644

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 267411

Analyte	Spike Added	LCS Result	LCS Qual	Total Uncert. (2σ+/-)	RL	MDC	Unit	%Rec	%Rec. Limits
Radium-228	14.6	17.28		1.85	1.00	0.405	pCi/L	119	56 - 140

Carrier	LCS %Yield	LCS Qualifier	Limits
Ba Carrier	84.6		40 - 110
Y Carrier	83.4		40 - 110

Lab Sample ID: LCSD 160-267411/3-A
Matrix: Water
Analysis Batch: 269644

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 267411

Analyte	Spike Added	LCSD Result	LCSD Qual	Total Uncert. (2σ+/-)	RL	MDC	Unit	%Rec	%Rec. Limits	RER	RER Limit
Radium-228	14.6	17.37		1.90	1.00	0.446	pCi/L	119	56 - 140	0.02	1

Carrier	LCSD %Yield	LCSD Qualifier	Limits
Ba Carrier	75.5		40 - 110
Y Carrier	80.7		40 - 110

Chain of Custody Record

Client Information Client Contact: Joju Abraham Company: Southern Company		Lab PM: Whitmore, Cheyenne R E-Mail: cheyenne.whitmore@testamericainc.com		Carrier Tracking No(s): 400-57303-24790.10 Page: Job #:	
Address: 241 Ralph McGill Blvd SE B10185 City: Atlanta State, Zip: GA, 30308 Phone: 404-506-7239 Email: JAbraham@southernco.com		Due Date Requested: TAT Requested (days): Standard TAT PO #: GPC10624814 WO #: Project #: 40007041 CCR - Scherer Site: plant scherer		Analysis Requested Metals Appendix III & IV - EPA 6020 & EPA 7470 Radium 226 & 228 - SW-846 9316 & 9320 TDS - SM 2540C; Cl,F,SO4 - EPA 300 Perform MS/MSD (Yes or No) Field Filtered Sample (Yes or No)	
Sample Identification SGWC-19 SGWC-18 EQB-7		Sample Date 8/22/16 8/22/16 8/22/16	Sample Time 1040 1408 1525	Sample Type (C=Comp, G=grab) G G G	Matrix (W=water, S=solid, O=wasteoil, I=In-house, A=air) Water Water Water Water Water Water Water Water Water Water
Preservation Codes: A - HCl B - NaOH C - AsNaO2 D - Nitric Acid E - NaHSO4 F - MeOH G - Amchlor H - Ascorbic Acid I - Ice J - DI Water K - EDTA L - EDA Other:		Total Number of Containers 3 3 3		Special Instructions/Note: 400-126211 COC	
Possible Hazard Identification <input checked="" type="checkbox"/> Non-Hazard <input type="checkbox"/> Flammable <input type="checkbox"/> Skin Irritant <input type="checkbox"/> Poison B <input type="checkbox"/> Unknown <input type="checkbox"/> Radiological					
Deliverable Requested: I, II, III, IV, Other (specify)					
Sample Disposal (A fee may be assessed if samples are retained longer than 1 month) <input type="checkbox"/> Return To Client <input checked="" type="checkbox"/> Disposal By Lab <input type="checkbox"/> Archive For _____ Months					
Special Instructions/QC Requirements:					
Empty Kit Relinquished by:		Date:		Method of Shipment:	
Relinquished by:		Date/Time: 8/22/16 1830		Received by: Fetex 0221 6546 Date/Time: 8/23/16 4161 Company:	
Relinquished by:		Date/Time:		Received by:	
Relinquished by:		Date/Time:		Received by: Whitmore Date/Time: 8/23/16 0922 Company:	
Custody Seals Intact:		Custody Seal No.:		Cooler Temperature(s) °C and Other Remarks: 1.7°C 1RS	



Chain of Custody Record

Client Information Client Contact: Joju Abraham Company: Southern Company		Lab PIV: Whitmore, Cheyenne R E-Mail: cheyenne.whitmore@testamericainc.com		Carrier Tracking No(s): 654688845989 654688845989		COC No: 400-57303-24790.11 Page:	
Address: 241 Ralph McGill Blvd SE B10185 City: Atlanta State Zip: GA, 30308 Phone: 404-506-7239 Email: JAbraham@southernco.com		Due Date Requested: TAT Requested (days): Standard TAT		Analysis Requested		Job #:	
Project #: 40007041 SSOW#: Plant Scherer		PO #: GPC10624814 WO #:		Metals Appendix III & IV - EPA 6020 & EPA 7470 Radium 226 & 228 - SW-846 9315 & 9320		Preservation Codes: M - Hexane N - None O - AsNaO2 P - Na2O4S Q - Na2SO3 R - Na2SO3 S - H2SO4 T - TSP Dodecahydrate U - Acetone V - MCAA W - ph 4-5 Z - other (specify)	
Sample Identification 6WLC-8		Sample Date 8/23/16		Sample Time 12:14		Sample Type G=grab	
Matrix Water		Sample Type G=grab		Preservation Code: 111		Special Instructions/Note: 400-126211 COC	
Field Filtered Sample (Yes or No)		TDS - SM 2640C; Cl, F, SO4 - EPA 300		Metals Appendix III & IV - EPA 6020 & EPA 7470		Total Number of Containers 3	
Possible Hazard Identification <input checked="" type="checkbox"/> Non-Hazard <input type="checkbox"/> Flammable <input type="checkbox"/> Skin Irritant		Date: 8/23/16 16:45		Date: 8/24/16 9:59		Sample Disposal (A fee may be assessed if samples are retained longer than 1 month) <input type="checkbox"/> Return To Client <input checked="" type="checkbox"/> Disposal By Lab <input type="checkbox"/> Archive For _____ Months	
Relinquished by: [Signature]		Date: 8/23/16 16:45		Date: 8/24/16 9:59		Relinquished by: [Signature]	
Relinquished by: [Signature]		Date: [Blank]		Date: [Blank]		Relinquished by: [Blank]	
Custody Seals Intact: <input type="checkbox"/> Yes <input type="checkbox"/> No		Custody Seal No.:		Cooler Temperature(s) °C and Other Remarks: [Signature]		Company	



Login Sample Receipt Checklist

Client: Southern Company

Job Number: 400-126211-2

SDG Number:

Login Number: 126211

List Number: 1

Creator: Chambers, Cheryle A

List Source: TestAmerica Pensacola

Question	Answer	Comment
Radioactivity wasn't checked or is \leq background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	N/A	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	1.2°C IR-5, 2.9°C IR-6
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 <math><6\text{mm}</math> (1/4").	N/A	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

Certification Summary

Client: Southern Company
Project/Site: CCR Plant Scherer

TestAmerica Job ID: 400-126211-2

Laboratory: TestAmerica Pensacola

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

Authority	Program	EPA Region	Certification ID	Expiration Date
Alabama	State Program	4	40150	06-30-17
Arizona	State Program	9	AZ0710	01-11-17
Arkansas DEQ	State Program	6	88-0689	09-01-16 *
California	ELAP	9	2510	03-31-18
Florida	NELAP	4	E81010	06-30-17
Georgia	State Program	4	N/A	06-30-17
Illinois	NELAP	5	200041	10-09-16
Iowa	State Program	7	367	07-31-16 *
Kansas	NELAP	7	E-10253	10-31-16
Kentucky (UST)	State Program	4	53	06-30-17
Kentucky (WW)	State Program	4	98030	12-31-16
Louisiana	NELAP	6	30976	06-30-17
Maryland	State Program	3	233	09-30-17
Massachusetts	State Program	1	M-FL094	06-30-17
Michigan	State Program	5	9912	05-06-17
New Jersey	NELAP	2	FL006	06-30-17
North Carolina (WW/SW)	State Program	4	314	12-31-16
Oklahoma	State Program	6	9810	08-31-17
Pennsylvania	NELAP	3	68-00467	01-31-17
Rhode Island	State Program	1	LAO00307	12-30-16
South Carolina	State Program	4	96026	06-30-16 *
Tennessee	State Program	4	TN02907	06-30-17
Texas	NELAP	6	T104704286-16-10	09-30-17
USDA	Federal		P330-16-00172	05-24-19
Virginia	NELAP	3	460166	06-14-17
Washington	State Program	10	C915	05-15-17
West Virginia DEP	State Program	3	136	06-30-17

Laboratory: TestAmerica St. Louis

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

Authority	Program	EPA Region	Certification ID	Expiration Date
Alaska	State Program	10	MO00054	06-30-17
California	State Program	9	2886	03-31-18
Connecticut	State Program	1	PH-0241	03-31-17
Florida	NELAP	4	E87689	06-30-17
Illinois	NELAP	5	003757	11-30-16 *
Iowa	State Program	7	373	12-01-16 *
Kansas	NELAP	7	E-10236	10-31-16 *
Kentucky (DW)	State Program	4	90125	12-31-16
L-A-B	DoD ELAP		L2305	04-06-19
Louisiana	NELAP	6	04080	06-30-17
Louisiana (DW)	NELAP	6	LA160008	12-31-16
Maryland	State Program	3	310	09-30-17
Missouri	State Program	7	780	06-30-17
Nevada	State Program	9	MO000542016-1	07-31-17
New Jersey	NELAP	2	MO002	06-30-17
New York	NELAP	2	11616	03-31-17
North Dakota	State Program	8	R207	06-30-17
NRC	NRC		24-24817-01	12-31-22

* Certification renewal pending - certification considered valid.

TestAmerica Pensacola

Certification Summary

Client: Southern Company
Project/Site: CCR Plant Scherer

TestAmerica Job ID: 400-126211-2

Laboratory: TestAmerica St. Louis (Continued)

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

Authority	Program	EPA Region	Certification ID	Expiration Date
Oklahoma	State Program	6	9997	08-31-17
Pennsylvania	NELAP	3	68-00540	02-28-17 *
South Carolina	State Program	4	85002001	06-30-16 *
Texas	NELAP	6	T104704193-15-9	07-31-17
USDA	Federal		P330-07-00122	01-09-17
Utah	NELAP	8	MO000542016-8	07-31-17
Virginia	NELAP	3	460230	06-14-17
Washington	State Program	10	C592	08-30-17
West Virginia DEP	State Program	3	381	08-31-16 *

* Certification renewal pending - certification considered valid.

TestAmerica Pensacola

Product Name: Low-Flow System

Date: 2016-08-16 12:00:18

Project Information:

Operator Name R. Hilliard
Company Name AECOM
Project Name Plant Scherer
Site Name SGWA-1
Latitude 33° 4' 35.82"
Longitude -83° -49' -45.96"
Sonde SN 457516
Turbidity Make/Model LaMotte 2020we

Pump Information:

Pump Model/Type bladder
Tubing Type polyethylene
Tubing Diameter 0.17 in
Tubing Length 55 ft

Pump placement from TOC 48 ft

Well Information:

Well ID SGWA-1
Well diameter 2 in
Well Total Depth 53.14 ft
Screen Length 10 ft
Depth to Water 39.02 ft

Pumping Information:

Final Pumping Rate 0.24 mL/min
Total System Volume 0.4354883 L
Calculated Sample Rate 300 sec
Stabilization Drawdown 3.84 in
Total Volume Pumped 13.2 L

Low-Flow Sampling Stabilization Summary

	Time	Elapsed	Temp C	pH	SpCond μ S/cm	Turb NTU	DTW ft	RDO mg/L	ORP mV
Stabilization			+/- 0.5	+/- 0.1	+/- 5%	+/- 5		+/- 0.2	+/- 20
Last 5	11:38:04	2099.99	20.23	5.42	47.47	7.52	39.34	0.18	35.73
Last 5	11:43:04	2399.99	20.13	5.40	47.60	4.96	39.34	0.17	39.26
Last 5	11:48:04	2699.99	19.99	5.41	47.33	3.71	39.34	0.16	41.79
Last 5	11:53:04	2999.97	20.04	5.43	47.26	3.30	39.34	0.15	37.00
Last 5	11:58:04	3299.96	20.22	5.42	47.11	3.34	39.34	0.15	29.81
Variance 0			-0.13	0.01	-0.27			-0.02	2.53
Variance 1			0.05	0.01	-0.07			-0.00	-4.79
Variance 2			0.18	-0.01	-0.15			-0.00	-7.19

Notes

Cloudy, intermittent light showers, little breeze, 88F
Rain started at 11:15

Grab Samples

SGWA-1
Sample Time: 12:02
DUP-4
Field duplicate

Product Name: Low-Flow System

Date: 2016-08-16 13:42:50

Project Information:

Operator Name R. Hilliard
Company Name AECOM
Project Name Plant Scherer
Site Name SGWA-2
Latitude 33° 4' 35.76"
Longitude -83° -49' -45.9"
Sonde SN 457516
Turbidity Make/Model LaMotte 2020we

Pump Information:

Pump Model/Type bladder
Tubing Type polyethylene
Tubing Diameter 0.17 in
Tubing Length 98 ft

Pump placement from TOC 93 ft

Well Information:

Well ID SGWA-2
Well diameter 2 in
Well Total Depth 98.05 ft
Screen Length 10 ft
Depth to Water 39.17 ft

Pumping Information:

Final Pumping Rate 150 mL/min
Total System Volume 0.6274155 L
Calculated Sample Rate 300 sec
Stabilization Drawdown 15.84 in
Total Volume Pumped 9.7 L

Low-Flow Sampling Stabilization Summary

	Time	Elapsed	Temp C	pH	SpCond μ S/cm	Turb NTU	DTW ft	RDO mg/L	ORP mV
Stabilization			+/- 0.5	+/- 0.1	+/- 5%	+/- 5		+/- 0.2	+/- 20
Last 5	13:20:07	2399.98	21.06	6.73	121.73	2.60	40.67	2.55	80.26
Last 5	13:25:07	2699.98	21.18	6.73	122.05	2.39	40.60	2.57	80.79
Last 5	13:30:07	2999.98	21.36	6.73	121.96	2.21	40.54	2.58	81.03
Last 5	13:35:07	3299.97	21.48	6.73	122.15	1.58	40.51	2.53	81.34
Last 5	13:40:07	3599.97	21.30	6.73	121.90	1.58	40.49	2.60	81.95
Variance 0			0.18	0.00	-0.09			0.01	0.24
Variance 1			0.12	0.00	0.19			-0.04	0.32
Variance 2			-0.18	-0.00	-0.25			0.07	0.61

Notes

Intermittent rain, overcast, still, 90F
All parameters stable, turbidity <5 NTUs, water level +/- 0.05' over last 3 readings (rising).

Grab Samples

SGWA-2
Sample Time: 13:46

Product Name: Low-Flow System

Date: 2016-08-16 15:13:02

Project Information:

Operator Name Miranda Steffler
Company Name AECOM
Project Name Plant Scherer
Site Name SGWA-3
Latitude 33° 4' 45.42"
Longitude -83° -49' -52.86"
Sonde SN 449474
Turbidity Make/Model 2020we

Pump Information:

Pump Model/Type bladder
Tubing Type polyethylene
Tubing Diameter 0.17 in
Tubing Length 52 ft

Pump placement from TOC 47 ft

Well Information:

Well ID SGWA-3
Well diameter 2 in
Well Total Depth 52.25 ft
Screen Length 10 ft
Depth to Water 32.98 ft

Pumping Information:

Final Pumping Rate ~~100~~ 150 MS mL/min
Total System Volume 0.422098 L
Calculated Sample Rate 300 sec
Stabilization Drawdown 61 in
Total Volume Pumped 8.25 L

Low-Flow Sampling Stabilization Summary

	Time	Elapsed	Temp C	pH	SpCond μ S/cm	Turb NTU	DTW ft	RDO mg/L	ORP mV
Stabilization			+/- 0.5	+/- 0.1	+/- 5%	+/- 10		+/- 0.2	+/- 10
Last 5	14:50:08	2100.81	20.63	5.72	82.42	2.78	37.23	1.52	0.01
Last 5	14:55:09	2401.81	20.53	5.73	82.95	1.49	37.63	1.62	1.82
Last 5	15:00:08	2701.29	20.48	5.72	82.91	1.41	37.83	1.68	-1.13
Last 5	15:05:08	3001.29	20.44	5.72	82.89	1.59	38.05	1.78	-0.50
Last 5	15:10:08	3301.29	20.62	5.72	83.80	0.85	38.08	1.83	-0.91
Variance 0			-0.05	-0.00	-0.03			0.06	-2.95
Variance 1			-0.04	-0.01	-0.02			0.10	0.63
Variance 2			0.19	0.01	0.91			0.05	-0.42

Notes

Cloudy. Light rain. 85

Grab Samples

SGWA-3

Sample time 1515

Product Name: Low-Flow System

Date: 2016-08-17 10:49:13

Project Information:

Operator Name Charles Watson
Company Name AECOM
Project Name Plant Scherer
Site Name SGWA-4
Latitude 33° 4' 57.96"
Longitude -83° -49' -31.14"
Sonde SN 463068
Turbidity Make/Model Lamotte 2020we

Pump Information:

Pump Model/Type bladder
Tubing Type Poly
Tubing Diameter 0.17 in
Tubing Length 75 ft

Pump placement from TOC 59 ft

Well Information:

Well ID SGWA-4
Well diameter 2 in
Well Total Depth 64.08 ft
Screen Length 10 ft
Depth to Water 36.76 ft

Pumping Information:

Final Pumping Rate 100 mL/min
Total System Volume 0.5247567 L
Calculated Sample Rate 300 sec
Stabilization Drawdown 24 in
Total Volume Pumped 14.1 L

Low-Flow Sampling Stabilization Summary

	Time	Elapsed	Temp C	pH	SpCond μ S/cm	Turb NTU	DTW ft	RDO mg/L	ORP mV
Stabilization			+/- 0.5	+/- 0.1	+/- 5%	+/- 5		+/- 0.2	+/- 20
Last 5	10:25:18	6900.15	20.51	6.42	162.55	5.34	48.74	2.75	43.82
Last 5	10:30:18	7200.15	20.39	6.43	162.50	5.24	48.73	2.72	43.80
Last 5	10:35:18	7500.06	20.53	6.43	162.47	4.64	48.76	2.66	43.70
Last 5	10:40:18	7800.06	20.61	6.43	162.66	3.63	48.76	2.63	44.01
Last 5	10:45:18	8100.06	20.66	6.42	163.25	3.81	48.76	2.68	44.10
Variance 0			0.13	0.01	-0.03			-0.06	-0.10
Variance 1			0.09	-0.00	0.19			-0.03	0.32
Variance 2			0.05	-0.01	0.60			0.05	0.09

Notes

Sunny 75F. Well site in good condition.
No rate changes. Sampling started at 10:49.

Grab Samples

SGWA-4
Sample time: 10:49

Product Name: Low-Flow System

Date: 2016-08-16 14:18:31

Project Information:

Operator Name Charles Watson
Company Name AECOM
Project Name Plant Scherer
Site Name SGWA-5
Latitude 33° 4' 24.42"
Longitude -83° -50' -15.24"
Sonde SN 463068
Turbidity Make/Model Lamotte 2020we

Pump Information:

Pump Model/Type peristaltic
Tubing Type Poly
Tubing Diameter 0.17 in
Tubing Length 40 ft

Pump placement from TOC 28 ft

Well Information:

Well ID SGWA-5
Well diameter 2 in
Well Total Depth 33.11 ft
Screen Length 10 ft
Depth to Water 16.25 ft

Pumping Information:

Final Pumping Rate 150 mL/min
Total System Volume 0.2685369 L
Calculated Sample Rate 300 sec
Stabilization Drawdown 6.6 in
Total Volume Pumped 4.05 L

Low-Flow Sampling Stabilization Summary

	Time	Elapsed	Temp C	pH	SpCond μ S/cm	Turb NTU	DTW ft	RDO mg/L	ORP mV
Stabilization			+/- 0.5	+/- 0.1	+/- 5%	+/- 5		+/- 0.2	+/- 20
Last 5	13:56:15	300.03	22.60	5.68	51.73	1.60	16.80	2.82	85.82
Last 5	14:01:15	600.02	21.92	5.66	52.31	1.62	16.80	2.68	75.63
Last 5	14:06:15	900.02	22.00	5.66	51.61	1.61	16.80	2.63	70.57
Last 5	14:11:15	1200.02	21.69	5.64	51.38	1.09	16.80	2.67	67.10
Last 5	14:16:15	1500.02	21.53	5.64	50.97	1.22	16.80	2.69	65.35
Variance 0			0.07	-0.00	-0.69			-0.05	-5.06
Variance 1			-0.30	-0.02	-0.23			0.04	-3.47
Variance 2			-0.16	-0.01	-0.41			0.02	-1.75

Notes

Overcast light breeze. 85F.
No rate changes. Rain showers off and on. Sampling started at 14:19.

Grab Samples

SGWA-5
Sample time 14:19

Product Name: Low-Flow System

Date: 2016-08-17 11:37:33

Project Information:

Operator Name Miranda Steffler
Company Name AECOM
Project Name Plant Scherer
Site Name SGWC-6
Latitude 33° 5' 4.56"
Longitude -83° -49' -21.06"
Sonde SN 449474
Turbidity Make/Model 2020we

Pump Information:

Pump Model/Type peristaltic
Tubing Type polyethylene
Tubing Diameter 0.17 in
Tubing Length 28 ft

Pump placement from TOC 23 ft

Well Information:

Well ID SGWC-6
Well diameter 2 in
Well Total Depth 28.06 ft
Screen Length 10 ft
Depth to Water 14.86 ft

Pumping Information:

Final Pumping Rate 200 mL/min
Total System Volume 0.2149758 L
Calculated Sample Rate 300 sec
Stabilization Drawdown 40.6 in
Total Volume Pumped 26 L

Low-Flow Sampling Stabilization Summary

	Time	Elapsed	Temp C	pH	SpCond μ S/cm	Turb NTU	DTW ft	RDO mg/L	ORP mV
Stabilization			+/- 0.5	+/- 0.1	+/- 5%	+/- 10		+/- 0.2	+/- 10
Last 5	11:14:39	4799.94	20.97	6.28	120.16	0.22	18.21	0.47	15.26
Last 5	11:19:39	5099.94	20.99	6.28	119.98	0.27	18.22	0.48	16.37
Last 5	11:24:39	5399.85	20.93	6.28	119.11	0.36	18.23	0.38	17.29
Last 5	11:29:39	5699.85	21.02	6.28	119.91	0.41	18.23	0.33	18.30
Last 5	11:34:39	5999.85	20.92	6.28	119.38	0.20	18.22	0.31	19.77
Variance 0			-0.06	-0.01	-0.87			-0.10	0.92
Variance 1			0.09	0.01	0.80			-0.05	1.00
Variance 2			-0.09	-0.00	-0.53			-0.02	1.48

Notes

Sunny. 85 F. iPad issue restarting after 45 min of purging.

Water level dropped to <1' above top of screen. Proceed with 3 well volume purge,

Grab Samples

SGWC-6

Sample time 1140

Product Name: Low-Flow System

Date: 2016-08-17 11:23:14

Project Information:

Operator Name R. Hilliard
Company Name AECOM
Project Name Plant Scherer
Site Name SGWC-7
Latitude 33° 5' 9.54"
Longitude -83° -49' -17.82"
Sonde SN 457516
Turbidity Make/Model LaMotte 2020we

Pump Information:

Pump Model/Type peristaltic
Tubing Type polyethylene
Tubing Diameter 0.17 in
Tubing Length 40 ft

Pump placement from TOC 33 ft

Well Information:

Well ID SGWC-7
Well diameter 2 in
Well Total Depth 37.87 ft
Screen Length 10 ft
Depth to Water 13.67 ft

Pumping Information:

Final Pumping Rate 150 mL/min
Total System Volume 0.2685369 L
Calculated Sample Rate 300 sec
Stabilization Drawdown 2.16 in
Total Volume Pumped 4.5 L

Low-Flow Sampling Stabilization Summary

	Time	Elapsed	Temp C	pH	SpCond μ S/cm	Turb NTU	DTW ft	RDO mg/L	ORP mV
Stabilization			+/- 0.5	+/- 0.1	+/- 5%	+/- 5		+/- 0.2	+/- 20
Last 5	11:01:01	600.02	21.68	6.58	396.99	1.69	13.84	0.41	-60.18
Last 5	11:06:01	900.00	21.59	6.58	393.68	0.60	13.84	0.38	-58.74
Last 5	11:11:01	1199.99	21.51	6.58	388.99	0.03	13.85	0.42	-40.40
Last 5	11:16:01	1499.99	21.40	6.57	383.44	0.35	13.85	0.42	-35.33
Last 5	11:21:01	1799.99	21.33	6.55	372.16	0.11	13.85	0.42	-33.23
Variance 0			-0.08	-0.01	-4.69			0.05	18.34
Variance 1			-0.11	-0.01	-5.55			-0.00	5.07
Variance 2			-0.07	-0.02	-11.28			-0.00	2.10

Notes

Sunny, light breeze, 85F

Grab Samples

SGWC-7

Sample Time: 11:25

Product Name: Low-Flow System

Date: 2016-08-17 14:13:21

Project Information:

Operator Name Charles Watson
Company Name AECOM
Project Name Plant Scherer
Site Name SGWC-8
Latitude 33° 5' 11.7"
Longitude -83° -49' -9.24"
Sonde SN 463068
Turbidity Make/Model Lamotte 2020we

Pump Information:

Pump Model/Type peristaltic
Tubing Type Poly
Tubing Diameter 0.17 in
Tubing Length 45 ft

Pump placement from TOC 38 ft

Well Information:

Well ID SGWC-8
Well diameter 2 in
Well Total Depth 43.1 ft
Screen Length 10 ft
Depth to Water 21.61 ft

Pumping Information:

Final Pumping Rate 150 mL/min
Total System Volume 0.290854 L
Calculated Sample Rate 300 sec
Stabilization Drawdown 1.56 in
Total Volume Pumped 4.08 L

Low-Flow Sampling Stabilization Summary

	Time	Elapsed	Temp C	pH	SpCond μ S/cm	Turb NTU	DTW ft	RDO mg/L	ORP mV
Stabilization			+/- 0.5	+/- 0.1	+/- 5%	+/- 5		+/- 0.2	+/- 20
Last 5	13:50:36	300.06	23.27	6.49	609.27	4.35	21.74	1.73	75.35
Last 5	13:55:36	600.03	22.61	6.47	614.78	2.51	21.75	1.64	67.98
Last 5	14:00:36	900.02	22.26	6.47	620.33	2.72	21.74	1.61	62.67
Last 5	14:05:36	1200.02	22.22	6.46	611.79	2.04	21.74	1.58	58.93
Last 5	14:10:36	1500.02	22.37	6.45	611.78	2.86	21.74	1.55	56.03
Variance 0			-0.35	-0.00	5.55			-0.03	-5.31
Variance 1			-0.04	-0.00	-8.54			-0.03	-3.74
Variance 2			0.15	-0.01	-0.01			-0.03	-2.90

Notes

Sunny, light breeze. 90F.
No rate changes. Sampling started at 14:14.

Grab Samples

SGWC-8
Sample time: 14:14

Product Name: Low-Flow System

Date: 2016-08-22 14:54:17

Project Information:

Operator Name R. Hilliard
 Company Name AECOM
 Project Name Plant Scherer
 Site Name SGWC-9
 Latitude 33° 5' 9.3"
 Longitude -83° -49' -3.66"
 Sonde SN 457516
 Turbidity Make/Model LaMotte 2020we

Pump Information:

Pump Model/Type peristaltic
 Tubing Type polyethylene
 Tubing Diameter ~~0.7 in~~ 0.17 in. *RA*
 Tubing Length 40 ft

Pump placement from TOC 33 ft

Well Information:

Well ID SGWC-9
 Well diameter 2 in
 Well Total Depth 38.29 ft
 Screen Length 10 ft
 Depth to Water 20.59 ft

Pumping Information:

Final Pumping Rate 150 mL/min
 Total System Volume ~~3.117096 L~~ 0.2685369 L *RA*
 Calculated Sample Rate 300 sec
 Stabilization Drawdown 8.64 in
 Total Volume Pumped 6 L

Low-Flow Sampling Stabilization Summary

	Time	Elapsed	Temp C	pH	SpCond μ S/cm	Turb NTU	DTW ft	RDO mg/L	ORP mV
Stabilization			+/- 0.5	+/- 0.1	+/- 5%	+/- 5		+/- 0.2	+/- 20
Last 5	14:30:15	1200.01	21.55	6.18	690.81	3.72	21.31	0.85	188.66
Last 5	14:35:15	1499.99	21.90	6.17	682.87	3.98	21.32	0.82	181.16
Last 5	14:40:15	1799.98	21.54	6.16	674.47	3.87	21.31	0.80	148.40
Last 5	14:45:15	2099.98	21.91	6.14	669.98	1.53	21.31	0.78	118.51
Last 5	14:50:15	2399.98	21.55	6.15	673.90	0.87	21.31	0.76	104.90
Variance 0			-0.36	-0.01	-8.39			-0.02	-32.77
Variance 1			0.37	-0.02	-4.50			-0.02	-29.89
Variance 2			-0.36	0.01	3.92			-0.02	-13.62

Notes

Clear, breezy, 85F
 Collected FB-7 during sample collection at SGWC-9.

Grab Samples

SGWC-9
 Sample Time: 14:56
 FB-7
 Sample Time: 15:08

Product Name: Low-Flow System

Date: 2016-08-17 14:15:08

Project Information:

Operator Name Miranda Steffler
Company Name AECOM
Project Name Plant Scherer
Site Name SGWC-10
Latitude 33° 5' 1.92"
Longitude -83° -48' -56.94"
Sonde SN 449474
Turbidity Make/Model 2020we

Pump Information:

Pump Model/Type peristaltic
Tubing Type polyethylene
Tubing Diameter 0.17 in
Tubing Length 32 ft

Pump placement from TOC 28 ft

Well Information:

Well ID SGWC-10
Well diameter 2 in
Well Total Depth 33.08 ft
Screen Length 10 ft
Depth to Water 17.58 ft

Pumping Information:

Final Pumping Rate 125 mL/min
Total System Volume 0.2328295 L
Calculated Sample Rate 300 sec
Stabilization Drawdown 15.6 in
Total Volume Pumped 4.25 L

Low-Flow Sampling Stabilization Summary

	Time	Elapsed	Temp C	pH	SpCond μ S/cm	Turb NTU	DTW ft	RDO mg/L	ORP mV
Stabilization			+/- 0.5	+/- 0.1	+/- 5%	+/- 10		+/- 0.2	+/- 10
Last 5	13:52:17	600.02	22.21	5.56	103.03	2.26	18.60	0.59	76.33
Last 5	13:57:17	900.02	22.40	5.55	103.55	1.54	18.76	0.55	74.11
Last 5	14:02:17	1200.02	22.36	5.55	102.87	1.99	18.85	0.46	72.30
Last 5	14:07:18	1500.85	22.26	5.55	103.09	1.19	18.88	0.59	68.25
Last 5	14:12:18	1800.93	22.24	5.55	103.39	0.57	18.88	0.60	63.54
Variance 0			-0.04	-0.00	-0.68			-0.09	-1.81
Variance 1			-0.10	0.00	0.22			0.13	-4.05
Variance 2			-0.02	-0.01	0.30			0.01	-4.71

Notes

Sunny clear 90 F

Grab Samples

SGWC-10

Sample Time: 14:15

EQB-4

Sample Time: 15:45

KA

Product Name: Low-Flow System

Date: 2016-08-17 14:39:35

Project Information:

Operator Name R. Hilliard
Company Name AECOM
Project Name Plant Scherer
Site Name SGWC-11
Latitude 33° 4' 58.38"
Longitude -83° -48' -53.46"
Sonde SN 457516
Turbidity Make/Model LaMotte 2020we

Pump Information:

Pump Model/Type peristaltic
Tubing Type polyethylene
Tubing Diameter 0.17 in
Tubing Length 45 ft

Pump placement from TOC 38 ft

Well Information:

Well ID SGWC-11
Well diameter 2 in
Well Total Depth 43.35 ft
Screen Length 10 ft
Depth to Water 19.17 ft

Pumping Information:

Final Pumping Rate 150 mL/min
Total System Volume 0.290854 L
Calculated Sample Rate 300 sec
Stabilization Drawdown 21.36 in
Total Volume Pumped 9 L

Low-Flow Sampling Stabilization Summary

	Time	Elapsed	Temp C	pH	SpCond μ S/cm	Turb NTU	DTW ft	RDO mg/L	ORP mV
Stabilization			+/- 0.5	+/- 0.1	+/- 5%	+/- 5		+/- 0.2	+/- 20
Last 5	14:17:01	2399.98	22.62	5.77	120.65	1.12	20.96	1.13	3.04
Last 5	14:22:01	2699.97	22.71	5.76	119.09	0.73	20.97	1.02	4.40
Last 5	14:27:01	2999.97	22.66	5.74	117.56	0.46	20.95	0.94	5.37
Last 5	14:32:01	3299.97	23.01	5.72	114.00	1.34	20.95	0.85	6.65
Last 5	14:37:01	3599.96	22.65	5.71	112.35	0.53	20.95	0.79	8.48
Variance 0			-0.05	-0.02	-1.53			-0.08	0.96
Variance 1			0.35	-0.02	-3.56			-0.08	1.28
Variance 2			-0.36	-0.01	-1.65			-0.06	1.83

Notes

Clear, light breeze, 90F.

Grab Samples

SGWC-11

Sample Time: 14:45

Product Name: Low-Flow System

Date: 2016-08-18 08:57:30

Project Information:

Operator Name R. Hilliard
Company Name AECOM
Project Name Plant Scherer
Site Name SGWC-12
Latitude 33° 4' 58.74"
Longitude -83° -48' -45.48"
Sonde SN 457516
Turbidity Make/Model LaMotte 2020we

Pump Information:

Pump Model/Type peristaltic
Tubing Type polyethylene
Tubing Diameter 0.17 in
Tubing Length 50 ft

Pump placement from TOC 45 ft

Well Information:

Well ID SGWC-12
Well diameter 2 in
Well Total Depth 50.20 ft
Screen Length 10 ft
Depth to Water 15.28 ft

Pumping Information:

Final Pumping Rate 200 mL/min
Total System Volume 0.3131711 L
Calculated Sample Rate 300 sec
Stabilization Drawdown 35.28 in
Total Volume Pumped 11 L

Low-Flow Sampling Stabilization Summary

	Time	Elapsed	Temp C	pH	SpCond μ S/cm	Turb NTU	DTW ft	RDO mg/L	ORP mV
Stabilization			+/- 0.5	+/- 0.1	+/- 5%	+/- 5		+/- 0.2	+/- 20
Last 5	08:35:03	2099.98	20.61	6.26	305.53	2.95	18.17	0.43	-44.35
Last 5	08:40:03	2399.98	20.68	6.25	304.76	2.83	18.20	0.47	-65.13
Last 5	08:45:03	2699.98	20.66	6.24	302.68	2.08	18.21	0.46	-56.68
Last 5	08:50:03	2999.98	20.82	6.23	301.73	1.45	18.22	0.45	-36.76
Last 5	08:55:03	3299.96	20.79	6.23	301.97	1.20	18.22	0.44	-32.44
Variance 0			-0.02	-0.01	-2.09			-0.01	8.45
Variance 1			0.16	-0.01	-0.95			-0.01	19.92
Variance 2			-0.03	-0.00	0.24			-0.01	4.33

Notes

Clear, calm, 75F

Grab Samples

SGWC-12

Sample Time: 09:01

DUP-5

Field duplicate *RH*

Product Name: Low-Flow System

Date: 2016-08-18 08:49:29

Project Information:

Operator Name Charles Watson
Company Name AECOM
Project Name Plant Scherer
Site Name SGWC-13
Latitude 33° 4' 55.68"
Longitude -83° -48' -36.72"
Sonde SN 463068
Turbidity Make/Model Lamotte 2020we

Pump Information:

Pump Model/Type peristaltic
Tubing Type Poly
Tubing Diameter 0.17 in
Tubing Length 40 ft

Pump placement from TOC 33 ft

Well Information:

Well ID SGWC-13
Well diameter 2 in
Well Total Depth 38.06 ft
Screen Length 10 ft
Depth to Water 4.2 ft

Pumping Information:

Final Pumping Rate 200 mL/min
Total System Volume 0.2685369 L
Calculated Sample Rate 300 sec
Stabilization Drawdown 13.8 in
Total Volume Pumped 6.3 L

Low-Flow Sampling Stabilization Summary

	Time	Elapsed	Temp C	pH	SpCond μ S/cm	Turb NTU	DTW ft	RDO mg/L	ORP mV
Stabilization			+/- 0.5	+/- 0.1	+/- 5%	+/- 5		+/- 0.2	+/- 20
Last 5	08:21:35	600.03	21.67	5.99	261.49	4.48	5.29	0.20	35.08
Last 5	08:26:35	900.02	21.55	5.98	261.30	2.58	5.34	0.17	32.63
Last 5	08:31:35	1200.02	21.55	5.98	259.87	2.59	5.34	0.16	31.14
Last 5	08:36:35	1500.02	21.46	5.99	259.35	1.98	5.35	0.14	29.52
Last 5	08:41:35	1800.03	21.45	6.00	259.55	1.37	5.35	0.14	29.23
Variance 0			-0.00	0.00	-1.44			-0.02	-1.50
Variance 1			-0.09	0.01	-0.52			-0.01	-1.61
Variance 2			-0.02	0.00	0.20			-0.01	-0.30

Notes

Clear 75F. Well site in good condition.

No rate changes. Particles floating in last turbidity reading. Checked lamotte calibration and it is still calibrated. Rescanned sample and same turbidity reading. Sampling started at 08:45.

Product Name: Low-Flow System

Date: 2016-08-18 10:58:49

Project Information:

Operator Name R. Hilliard
Company Name AECOM
Project Name Plant Scherer
Site Name SGWC-14
Latitude 33° 4' 52.56"
Longitude -83° -48' -30"
Sonde SN 457516
Turbidity Make/Model LaMotte 2020we

Pump Information:

Pump Model/Type peristaltic
Tubing Type polyethylene
Tubing Diameter 0.17 in
Tubing Length 40 ft

Pump placement from TOC 33 ft

Well Information:

Well ID SGWC-14
Well diameter 2 in
Well Total Depth 37.7 ft
Screen Length 10 ft
Depth to Water 11.00 ft

Pumping Information:

Final Pumping Rate 200 mL/min
Total System Volume 0.2685369 L
Calculated Sample Rate 300 sec
Stabilization Drawdown 0.96 in
Total Volume Pumped 8 L

Low-Flow Sampling Stabilization Summary

	Time	Elapsed	Temp C	pH	SpCond μ S/cm	Turb NTU	DTW ft	RDO mg/L	ORP mV
Stabilization			+/- 0.5	+/- 0.1	+/- 5%	+/- 5		+/- 0.2	+/- 20
Last 5	10:37:00	1200.00	19.41	5.81	480.42	16.90	11.07	0.39	66.58
Last 5	10:42:00	1500.00	19.68	5.79	481.97	7.35	11.08	0.38	66.08
Last 5	10:47:00	1800.00	19.64	5.77	481.46	4.47	11.08	0.37	65.24
Last 5	10:52:00	2100.00	19.59	5.76	480.72	3.91	11.08	0.37	64.89
Last 5	10:57:00	2400.00	19.47	5.75	479.13	3.08	11.08	0.35	64.52
Variance 0			-0.04	-0.01	-0.51			-0.01	-0.84
Variance 1			-0.05	-0.02	-0.74			0.00	-0.35
Variance 2			-0.12	-0.00	-1.58			-0.02	-0.37

Notes

Clear, intermittent winds, 82F

Grab Samples

SGWC-14

Sample Time: 11:01

Product Name: Low-Flow System

Date: 2016-08-18 11:21:00

Project Information:

Operator Name Charles Watson
Company Name AECOM
Project Name Plant Scherer
Site Name SGWC-15
Latitude 33° 4' 44.88"
Longitude -83° -48' -21.12"
Sonde SN 463068
Turbidity Make/Model Lamotte 2020we

Pump Information:

Pump Model/Type ~~SGWC-15~~ Bladder *RL*
Tubing Type Poly
Tubing Diameter 0.17 in
Tubing Length 55 ft

Pump placement from TOC 43 ft

Well Information:

Well ID SGWC-15
Well diameter 2 in
Well Total Depth 48.43 ft
Screen Length 10 ft
Depth to Water 39.93 ft

Pumping Information:

Final Pumping Rate 350 mL/min
Total System Volume 0.4354883 L
Calculated Sample Rate 300 sec
Stabilization Drawdown 0.96 in
Total Volume Pumped 19 L

Low-Flow Sampling Stabilization Summary

	Time	Elapsed	Temp C	pH	SpCond μ S/cm	Turb NTU	DTW ft	RDO mg/L	ORP mV
Stabilization			+/- 0.5	+/- 0.1	+/- 5%	+/- 5		+/- 0.2	+/- 20
Last 5	10:58:09	2400.02	19.77	4.70	485.19	7.30	30.01	0.46	417.09
Last 5	11:03:09	2700.00	19.81	4.72	485.16	5.50	30.01	0.46	414.52
Last 5	11:08:09	3000.00	19.85	4.71	486.85	4.35	30.01	0.46	445.37
Last 5	11:13:09	3300.00	19.69	4.71	486.23	4.11	30.01	0.46	441.00
Last 5	11:18:09	3600.01	19.96	4.73	484.89	3.18	30.01	0.45	456.76
Variance 0			0.05	-0.00	1.68			0.00	30.85
Variance 1			-0.16	0.00	-0.62			-0.00	-4.37
Variance 2			0.26	0.02	-1.34			-0.01	15.76

Notes

Sunny 86F. Well site in good condition.
Rate changes at 10:43 0.25L/min to 0.35L/min. Sampling started at 11:20.

Grab Samples

SGWC-15
Sample time: 11:20

Product Name: Low-Flow System

Date: 2016-08-18 13:39:53

Project Information:

Operator Name R. Hilliard
Company Name AECOM
Project Name Plant Scherer
Site Name SGWC-16
Latitude 33° 4' 35.28"
Longitude -83° -48' -20.34"
Sonde SN 457516
Turbidity Make/Model LaMotte 2020we

Pump Information:

Pump Model/Type peristaltic
Tubing Type polyethylene
Tubing Diameter 0.17 in
Tubing Length 45 ft

Pump placement from TOC 38 ft

Well Information:

Well ID SGWC-16
Well diameter 2 in
Well Total Depth 43.22 ft
Screen Length 10 ft
Depth to Water 25.91 ft

Pumping Information:

Final Pumping Rate 150 mL/min
Total System Volume 0.290854 L
Calculated Sample Rate 300 sec
Stabilization Drawdown 0.96 in
Total Volume Pumped 6.75 L

Low-Flow Sampling Stabilization Summary

	Time	Elapsed	Temp C	pH	SpCond μ S/cm	Turb NTU	DTW ft	RDO mg/L	ORP mV
Stabilization			+/- 0.5	+/- 0.1	+/- 5%	+/- 5		+/- 0.2	+/- 20
Last 5	13:17:03	1500.02	23.07	5.31	80.09	9.77	26.00	2.38	102.75
Last 5	13:22:02	1799.99	23.08	5.31	82.82	5.49	25.99	2.36	102.62
Last 5	13:27:02	2099.99	23.30	5.30	82.55	3.79	25.99	2.35	103.13
Last 5	13:32:02	2399.99	23.21	5.29	82.85	3.80	25.99	2.36	103.67
Last 5	13:37:02	2699.99	23.34	5.30	81.53	3.00	25.99	2.36	104.08
Variance 0			0.21	-0.01	-0.27			-0.01	0.51
Variance 1			-0.09	-0.01	0.31			0.01	0.54
Variance 2			0.13	0.00	-1.32			-0.00	0.42

Notes

Overcast, windy, 90F
Equipment blank collected from water level indicator.

Grab Samples

SGWC-16

Sample Time: 13:42

EQB-5

Sample Time: 14:47 RA

Product Name: Low-Flow System

Date: 2016-08-18 13:48:21

Project Information:

Operator Name Charles Watson
Company Name AECOM
Project Name Plant Scherer
Site Name SGWC-17
Latitude 33° 4' 26.28"
Longitude -83° -48' -19.14"
Sonde SN 463068
Turbidity Make/Model Lamotte 2020we

Pump Information:

Pump Model/Type peristaltic
Tubing Type Poly
Tubing Diameter 0.17 in
Tubing Length 30 ft

Pump placement from TOC 22 ft

Well Information:

Well ID SGWC-17
Well diameter 2 in
Well Total Depth 27.17 ft
Screen Length 10 ft
Depth to Water 0.65 ft

Pumping Information:

Final Pumping Rate 250 mL/min
Total System Volume 0.2239027 L
Calculated Sample Rate 300 sec
Stabilization Drawdown 7.92 in
Total Volume Pumped 10.26 L

Low-Flow Sampling Stabilization Summary

	Time	Elapsed	Temp C	pH	SpCond μ S/cm	Turb NTU	DTW ft	RDO mg/L	ORP mV
Stabilization			+/- 0.5	+/- 0.1	+/- 5%	+/- 5		+/- 0.2	+/- 20
Last 5	13:24:37	1200.02	23.02	6.24	442.81	8.16	1.30	0.12	57.05
Last 5	13:29:37	1500.03	22.98	6.24	442.12	5.80	1.31	0.09	55.43
Last 5	13:34:37	1800.02	22.85	6.24	438.15	3.74	1.31	0.08	53.76
Last 5	13:39:38	2100.79	22.96	6.24	439.50	2.76	1.31	0.08	52.17
Last 5	13:44:38	2400.79	23.04	6.24	439.59	1.20	1.31	0.08	51.28
Variance 0			-0.13	0.00	-3.97			-0.01	-1.67
Variance 1			0.11	0.00	1.35			0.00	-1.59
Variance 2			0.09	-0.00	0.09			-0.00	-0.89

Notes

Sunny 90F. Well site in good condition.
No rate changes. Sampling started at 13:47. Particulates floating in water. Lamotte calibration checked and turbidity is accurate.

Grab Samples

SGWC-17
Sample time: 13:47

Product Name: Low-Flow System

Date: 2016-08-22 14:09:32

Project Information:

Operator Name Charles Watson
Company Name AECOM
Project Name Plant Scherer
Site Name SGWC-18
Latitude 33° 4' 12.84"
Longitude -83° -48' -23.22"
Sonde SN 463068
Turbidity Make/Model Lamotte 2020we

Pump Information:

Pump Model/Type bladder
Tubing Type Poly
Tubing Diameter 0.17 in
Tubing Length 55 ft

Pump placement from TOC 42 ft

Well Information:

Well ID SGWC-18
Well diameter 2 in
Well Total Depth 47.6 ft
Screen Length 10 ft
Depth to Water 35.68 ft

Pumping Information:

Final Pumping Rate 250 mL/min
Total System Volume 0.4354883 L
Calculated Sample Rate 300 sec
Stabilization Drawdown 4.4 in
Total Volume Pumped 15.5 L

Low-Flow Sampling Stabilization Summary

	Time	Elapsed	Temp C	pH	SpCond μ S/cm	Turb NTU	DTW ft	RDO mg/L	ORP mV
Stabilization			+/- 0.5	+/- 0.1	+/- 5%	+/- 5		+/- 0.2	+/- 20
Last 5	13:44:16	2400.07	22.13	4.68	1006.02	6.07	36.03	1.15	100.13
Last 5	13:49:16	2700.07	21.95	4.68	1008.95	5.29	36.04	1.16	99.83
Last 5	13:54:16	3000.07	21.96	4.68	1004.82	4.55	36.05	1.16	99.40
Last 5	13:59:16	3300.07	21.86	4.69	1001.96	3.81	36.05	1.17	99.59
Last 5	14:04:16	3600.17	21.97	4.68	1001.91	3.69	36.05	1.15	99.32
Variance 0			0.01	0.00	-4.14			-0.00	-0.42
Variance 1			-0.10	0.00	-2.86			0.01	0.18
Variance 2			0.11	-0.01	-0.05			-0.03	-0.27

Notes

Sunny 90F. Wind 5mph coming off the ashpond.

No rate changes. Sampling started at 14:08. Equipment blank collected off bladder pump.

Grab Samples

SGWC-18

Sample time: 14:08

EQB-7

Equipment blank

Product Name: Low-Flow System

Date: 2016-08-22 11:05:28

Project Information:

Operator Name Charles Watson
Company Name AECOM
Project Name Plant Scherer
Site Name SGWC-19
Latitude 33° 4' 3.78"
Longitude -83° -48' -33.06"
Sonde SN 463068
Turbidity Make/Model Lamotte 2020we

Pump Information:

Pump Model/Type peristaltic
Tubing Type Poly
Tubing Diameter 0.17 in
Tubing Length 40 ft

Pump placement from TOC 32 ft

Well Information:

Well ID SGWC-19
Well diameter 2 in
Well Total Depth 37.63 ft
Screen Length 10 ft
Depth to Water 16.64 ft

Pumping Information:

Final Pumping Rate 200 mL/min
Total System Volume 0.2685369 L
Calculated Sample Rate 300 sec
Stabilization Drawdown 8.28 in
Total Volume Pumped 9.3 L

Low-Flow Sampling Stabilization Summary

	Time	Elapsed	Temp C	pH	SpCond μ S/cm	Turb NTU	DTW ft	RDO mg/L	ORP mV
Stabilization			+/- 0.5	+/- 0.1	+/- 5%	+/- 5		+/- 0.2	+/- 20
Last 5	10:15:11	1500.03	20.97	5.51	493.47	7.48	17.35	1.64	56.15
Last 5	10:20:11	1800.03	20.97	5.51	493.13	5.14	17.33	1.66	54.69
Last 5	10:25:11	2100.02	20.94	5.51	493.29	3.02	17.33	1.67	52.41
Last 5	10:30:11	2400.02	20.97	5.50	492.20	2.78	17.33	1.67	51.74
Last 5	10:35:11	2700.02	21.06	5.50	490.34	2.14	17.33	1.67	51.32
Variance 0			-0.03	-0.00	0.17			0.01	-2.28
Variance 1			0.02	-0.01	-1.10			-0.00	-0.67
Variance 2			0.09	-0.00	-1.85			-0.00	-0.43

Notes

Sunny. 80F. Wind constant 5 mph. Well site in good condition.
No rate changes. Sampling started at 10:40.

Grab Samples

SGWC-19

Sample time: 10:40

Product Name: Low-Flow System

Date: 2016-08-22 12:52:08

Project Information:

Operator Name R. Hilliard
Company Name AECOM
Project Name Plant Scherer
Site Name SGWC-20
Latitude 33° 4' 3.72"
Longitude -83° -48' -42.48"
Sonde SN 457516
Turbidity Make/Model LaMotte

Pump Information:

Pump Model/Type peristaltic
Tubing Type polyethylene
Tubing Diameter 0.17 in
Tubing Length 30 ft

Pump placement from TOC 23 ft

Well Information:

Well ID SGWC-20
Well diameter 2 in
Well Total Depth 28.53 ft
Screen Length 10 ft
Depth to Water 13.61 ft

Pumping Information:

Final Pumping Rate 150 mL/min
Total System Volume 0.2239027 L
Calculated Sample Rate 300 sec
Stabilization Drawdown 7.32 in
Total Volume Pumped 4.5 L

Low-Flow Sampling Stabilization Summary

	Time	Elapsed	Temp C	pH	SpCond μ S/cm	Turb NTU	DTW ft	RDO mg/L	ORP mV
Stabilization			+/- 0.5	+/- 0.1	+/- 5%	+/- 5		+/- 0.2	+/- 20
Last 5	12:30:01	600.02	24.20	4.44	558.20	0.92	14.21	0.58	155.17
Last 5	12:35:01	899.99	24.20	4.41	562.15	2.03	14.21	0.56	148.99
Last 5	12:40:01	1199.99	24.22	4.39	578.79	0.31	14.22	0.52	152.06
Last 5	12:45:01	1499.99	24.19	4.38	584.38	0.28	14.22	0.52	155.36
Last 5	12:50:01	1799.99	24.38	4.37	585.25	0.28	14.22	0.52	159.94
Variance 0			0.02	-0.02	16.64			-0.03	3.07
Variance 1			-0.02	-0.01	5.58			-0.00	3.30
Variance 2			0.18	-0.01	0.88			0.00	4.58

Notes

Clear, breezy (from ash pond), ~80F

Grab Samples

SGWC-20

Sample Time: 12:54

Product Name: Low-Flow System

Date: 2016-08-22 10:23:58

Project Information:

Operator Name R. Hilliard
Company Name AECOM
Project Name Plant Scherer
Site Name SGWC-21
Latitude 33° 3' 57.9"
Longitude -83° -48' -55.44"
Sonde SN 457516
Turbidity Make/Model LaMotte 2020we

Pump Information:

Pump Model/Type peristaltic
Tubing Type polyethylene
Tubing Diameter 0.17 in
Tubing Length 30 ft

Pump placement from TOC 22 ft

Well Information:

Well ID SGWC-21
Well diameter 2 in
Well Total Depth 27.76 ft
Screen Length 10 ft
Depth to Water 1.41 ft

Pumping Information:

Final Pumping Rate 200 mL/min
Total System Volume 0.2239027 L
Calculated Sample Rate 300 sec
Stabilization Drawdown 1.56 in
Total Volume Pumped 7.2 L

Low-Flow Sampling Stabilization Summary

	Time	Elapsed	Temp C	pH	SpCond μ S/cm	Turb NTU	DTW ft	RDO mg/L	ORP mV
Stabilization			+/- 0.5	+/- 0.1	+/- 5%	+/- 5		+/- 0.2	+/- 20
Last 5	10:01:02	1200.02	22.94	5.95	426.15	3.36	1.55	0.45	220.22
Last 5	10:06:02	1500.02	22.86	5.95	426.15	2.59	1.54	0.46	223.42
Last 5	10:11:02	1799.98	22.90	5.96	425.98	2.28	1.54	0.44	246.02
Last 5	10:16:02	2099.98	22.89	5.96	425.33	2.24	1.54	0.44	247.05
Last 5	10:21:02	2399.98	22.80	5.96	425.03	2.49	1.54	0.43	264.75
Variance 0			0.04	0.00	-0.17			-0.01	22.60
Variance 1			-0.01	0.00	-0.66			-0.00	1.03
Variance 2			-0.09	0.00	-0.30			-0.01	17.70

Notes

Clear, breezy (from ash pond), ~75F
Collect field duplicate DUP-7 at SGWC-21

Grab Samples

SGWC-21

Sample Time: 10:25

DUP-7

Field duplicate

Product Name: Low-Flow System

Date: 2016-08-19 08:30:32

Project Information:

Operator Name R. Hilliard
Company Name AECOM
Project Name Plant Scherer
Site Name SGWC-22
Latitude 33° 3' 59.04"
Longitude -83° -49' -19.68"
Sonde SN 457516
Turbidity Make/Model LaMotte 2020we

Pump Information:

Pump Model/Type bladder
Tubing Type polyethylene
Tubing Diameter 0.17 in
Tubing Length 50 ft

Pump placement from TOC 45 ft

Well Information:

Well ID SGWC-22
Well diameter 2 in
Well Total Depth 49.90 ft
Screen Length 10 ft
Depth to Water 27.01 ft

Pumping Information:

Final Pumping Rate 300 mL/min
Total System Volume 0.4131711 L
Calculated Sample Rate 300 sec
Stabilization Drawdown 27.48 in
Total Volume Pumped 21 L

Low-Flow Sampling Stabilization Summary

	Time	Elapsed	Temp C	pH	SpCond μ S/cm	Turb NTU	DTW ft	RDO mg/L	ORP mV
Stabilization			+/- 0.5	+/- 0.1	+/- 5%	+/- 5		+/- 0.2	+/- 20
Last 5	08:08:01	2999.99	19.19	5.65	313.65	7.42	29.30	0.04	62.59
Last 5	08:13:01	3299.97	19.26	5.64	313.62	5.58	29.30	0.04	62.95
Last 5	08:18:01	3599.97	19.34	5.64	314.80	4.83	29.30	0.04	63.76
Last 5	08:23:01	3899.97	19.42	5.64	315.38	3.91	29.30	0.04	64.46
Last 5	08:28:01	4199.97	19.41	5.65	313.16	3.17	29.30	0.03	65.17
Variance 0			0.08	-0.00	1.17			-0.00	0.81
Variance 1			0.09	0.00	0.59			-0.00	0.70
Variance 2			-0.01	0.01	-2.22			-0.00	0.71

Notes

Clear, calm, 75F
Set pump on 08/18 to minimize agitation of water column.

Grab Samples

SGWC-22: Sample Time: 08:33

FB-6: Sample Time: 08:53

EQB-6: Sample Time: 09:45

↳ Bladder Pump.

RA

Product Name: Low-Flow System

Date: 2016-08-19 08:00:59

Project Information:

Operator Name Charles Watson
Company Name AECOM
Project Name Plant Scherer
Site Name SGWC-23
Latitude 33° 4' 10.56"
Longitude -83° -49' -19.68"
Sonde SN 463068
Turbidity Make/Model Lamotte 2020we

Pump Information:

Pump Model/Type bladder
Tubing Type Poly
Tubing Diameter 0.17 in
Tubing Length 60 ft

Pump placement from TOC 47 ft

Well Information:

Well ID SGWC-23
Well diameter 2 in
Well Total Depth 52.95 ft
Screen Length 10 ft
Depth to Water 31.94 ft

Pumping Information:

Final Pumping Rate 250 mL/min
Total System Volume 0.4578054 L
Calculated Sample Rate 300 sec
Stabilization Drawdown 1.92 in
Total Volume Pumped 10.5 L

Low-Flow Sampling Stabilization Summary

	Time	Elapsed	Temp C	pH	SpCond μ S/cm	Turb NTU	DTW ft	RDO mg/L	ORP mV
Stabilization			+/- 0.5	+/- 0.1	+/- 5%	+/- 5		+/- 0.2	+/- 20
Last 5	07:35:49	1200.02	18.92	5.86	385.43	0.71	32.09	1.43	50.12
Last 5	07:40:49	1500.02	18.94	5.85	389.50	0.61	32.10	1.71	49.36
Last 5	07:45:49	1800.02	18.93	5.84	391.31	0.91	32.10	1.88	48.15
Last 5	07:50:49	2100.02	19.02	5.84	391.85	0.84	32.10	1.91	47.88
Last 5	07:55:49	2400.02	19.06	5.84	391.64	0.81	32.10	1.96	47.56
Variance 0			-0.01	-0.00	1.81			0.17	-1.22
Variance 1			0.09	-0.01	0.54			0.03	-0.27
Variance 2			0.04	-0.00	-0.21			0.04	-0.31

Notes

Clear 74F. Well site in good condition.
No rate changes. Sampling started at 07:58. DUP-6 collected at this well.

Grab Samples

SGWC-23

Sample time: 07:58

DUP-6

Duplicate

Product Name: Low-Flow System

Date: 2016-08-16 11:47:45

Project Information:

Operator Name Miranda Steffler
Company Name AECOM
Project Name Plant Scherer
Site Name SGWA-24
Latitude 33° 4' 24.54"
Longitude -83° -49' -35.76"
Sonde SN 449474
Turbidity Make/Model 2020we

Pump Information:

Pump Model/Type peristaltic
Tubing Type polyethylene
Tubing Diameter 0.17 in
Tubing Length 41 ft

Pump placement from TOC 36 ft

Well Information:

Well ID SGWA-24
Well diameter 2 in
Well Total Depth 42.59 ft
Screen Length 10 ft
Depth to Water 15.52 ft

Pumping Information:

Final Pumping Rate 150 mL/min
Total System Volume 0.2730004 L
Calculated Sample Rate 300 sec
Stabilization Drawdown 5 in
Total Volume Pumped 4.5 L

Low-Flow Sampling Stabilization Summary

	Time	Elapsed	Temp C	pH	SpCond μ S/cm	Turb NTU	DTW ft	RDO mg/L	ORP mV
Stabilization			+/- 0.5	+/- 0.1	+/- 5%	+/- 10		+/- 0.2	+/- 10
Last 5	11:25:05	600.02	21.45	6.36	135.40	4.04	15.94	2.25	52.99
Last 5	11:30:05	900.02	21.60	6.36	134.41	4.75	15.94	2.16	52.20
Last 5	11:35:05	1200.02	21.85	6.35	136.25	4.78	15.94	2.20	51.30
Last 5	11:40:05	1500.02	21.78	6.35	135.94	4.45	15.94	2.20	50.59
Last 5	11:45:05	1800.04	22.00	6.35	134.56	4.87	15.94	2.15	50.59
Variance 0			0.26	-0.01	1.84			0.04	-0.90
Variance 1			-0.08	-0.00	-0.31			-0.01	-0.72
Variance 2			0.22	-0.00	-1.38			-0.05	0.00

Notes

Partly cloudy 95 F. Light rain

Grab Samples

SGWA-24

Sample time 1150

Product Name: Low-Flow System

Date: 2016-08-17 09:44:05

Project Information:

Operator Name R. Hilliard
Company Name AECOM
Project Name Plant Scherer
Site Name SGWA-25
Latitude 33° 4' 48.72"
Longitude -83° -49' -34.38"
Sonde SN 457516
Turbidity Make/Model LaMotte 2020we

Pump Information:

Pump Model/Type bladder
Tubing Type polyethylene
Tubing Diameter 0.17 in
Tubing Length 50 ft

Pump placement from TOC 43 ft

Well Information:

Well ID SGWA-25
Well diameter 2 in
Well Total Depth 48.11 ft
Screen Length 10 ft
Depth to Water 28.92 ft

Pumping Information:

Final Pumping Rate 250 mL/min
Total System Volume 0.4131711 L
Calculated Sample Rate 300 sec
Stabilization Drawdown 2.88 in
Total Volume Pumped 18.75 L

Low-Flow Sampling Stabilization Summary

	Time	Elapsed	Temp C	pH	SpCond μ S/cm	Turb NTU	DTW ft	RDO mg/L	ORP mV
Stabilization			+/- 0.5	+/- 0.1	+/- 5%	+/- 5		+/- 0.2	+/- 20
Last 5	09:21:04	3299.98	19.37	6.10	131.35	5.19	29.16	0.16	0.06
Last 5	09:26:04	3599.96	19.46	6.08	130.79	5.09	29.16	0.17	1.44
Last 5	09:31:04	3899.96	19.38	6.07	132.13	4.81	29.16	0.29	6.22
Last 5	09:36:04	4199.96	19.39	6.09	131.72	4.69	29.16	0.31	3.30
Last 5	09:41:04	4499.96	19.43	6.10	131.15	3.56	29.16	0.33	8.50
Variance 0			-0.07	-0.01	1.34			0.12	4.78
Variance 1			0.00	0.02	-0.41			0.02	-2.92
Variance 2			0.04	0.00	-0.57			0.02	5.20

Notes

Clear, light breeze, 75F. Rained last night.

Grab Samples

SGWA-25

Sample Time: 09:46

FB-4

Sample Time: 09:08



APPENDIX A

ANALYTICAL RESULTS & FIELD DATA FORMS
(OCTOBER 2016)

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

TestAmerica Laboratories, Inc.

TestAmerica Pensacola

3355 McLemore Drive

Pensacola, FL 32514

Tel: (850)474-1001

TestAmerica Job ID: 400-128760-1

TestAmerica Sample Delivery Group: Ash Pond

Client Project/Site: CCR Plant Scherer

For:

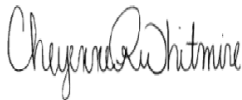
Southern Company

241 Ralph McGill Blvd SE

B10185

Atlanta, Georgia 30308

Attn: Joju Abraham



Authorized for release by:

10/31/2016 1:52:19 PM

Cheyenne Whitmire, Project Manager II

(850)471-6222

cheyenne.whitmire@testamericainc.com

LINKS

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Have a Question?



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www.testamericainc.com

The test results in this report meet all 2003 NELAC and 2009 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.

1

2

3

4

5

6

7

8

9

10

11

12

13



Table of Contents

Cover Page	1
Table of Contents	2
Detection Summary	3
Method Summary	5
Sample Summary	6
Client Sample Results	7
Definitions	14
Chronicle	15
QC Association	17
QC Sample Results	19
Chain of Custody	23
Receipt Checklists	25
Certification Summary	26

Detection Summary

Client: Southern Company
Project/Site: CCR Plant Scherer

TestAmerica Job ID: 400-128760-1
SDG: Ash Pond

Client Sample ID: SGWA-24

Lab Sample ID: 400-128760-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chloride	1.9		1.0	0.89	mg/L	1		300.0	Total/NA
Barium	0.022		0.0025	0.00049	mg/L	5		6020	Total Recoverable
Calcium	12		0.25	0.13	mg/L	5		6020	Total Recoverable
Chromium	0.0031		0.0025	0.0011	mg/L	5		6020	Total Recoverable
Cobalt	0.00040	J	0.0025	0.00040	mg/L	5		6020	Total Recoverable
Total Dissolved Solids	120		5.0	3.4	mg/L	1		SM 2540C	Total/NA

Client Sample ID: SGWA-1

Lab Sample ID: 400-128760-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chloride	2.0		1.0	0.89	mg/L	1		300.0	Total/NA
Sulfate	2.9		1.0	0.70	mg/L	1		300.0	Total/NA
Barium	0.061		0.0025	0.00049	mg/L	5		6020	Total Recoverable
Calcium	2.7		0.25	0.13	mg/L	5		6020	Total Recoverable
Cobalt	0.020		0.0025	0.00040	mg/L	5		6020	Total Recoverable
Total Dissolved Solids	66		5.0	3.4	mg/L	1		SM 2540C	Total/NA

Client Sample ID: SGWA-2

Lab Sample ID: 400-128760-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chloride	1.4		1.0	0.89	mg/L	1		300.0	Total/NA
Barium	0.041		0.0025	0.00049	mg/L	5		6020	Total Recoverable
Calcium	10		0.25	0.13	mg/L	5		6020	Total Recoverable
Chromium	0.0045		0.0025	0.0011	mg/L	5		6020	Total Recoverable
Total Dissolved Solids	100		5.0	3.4	mg/L	1		SM 2540C	Total/NA

Client Sample ID: SGWA-3

Lab Sample ID: 400-128760-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chloride	3.1		1.0	0.89	mg/L	1		300.0	Total/NA
Sulfate	1.2		1.0	0.70	mg/L	1		300.0	Total/NA
Barium	0.034		0.0025	0.00049	mg/L	5		6020	Total Recoverable
Calcium	5.4		0.25	0.13	mg/L	5		6020	Total Recoverable
Chromium	0.0067		0.0025	0.0011	mg/L	5		6020	Total Recoverable
Total Dissolved Solids	34		5.0	3.4	mg/L	1		SM 2540C	Total/NA

Client Sample ID: SGWA-5

Lab Sample ID: 400-128760-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chloride	1.8		1.0	0.89	mg/L	1		300.0	Total/NA

This Detection Summary does not include radiochemical test results.

TestAmerica Pensacola

Detection Summary

Client: Southern Company
 Project/Site: CCR Plant Scherer

TestAmerica Job ID: 400-128760-1
 SDG: Ash Pond

Client Sample ID: SGWA-5 (Continued)

Lab Sample ID: 400-128760-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Barium	0.010		0.0025	0.00049	mg/L	5		6020	Total
Calcium	1.4		0.25	0.13	mg/L	5		6020	Recoverable Total
Chromium	0.0012	J	0.0025	0.0011	mg/L	5		6020	Recoverable Total
Total Dissolved Solids	58		5.0	3.4	mg/L	1		SM 2540C	Recoverable Total/NA

Client Sample ID: SGWA-25

Lab Sample ID: 400-128760-6

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chloride	2.1		1.0	0.89	mg/L	1		300.0	Total/NA
Arsenic	0.00073	J	0.0013	0.00046	mg/L	5		6020	Total
Barium	0.023		0.0025	0.00049	mg/L	5		6020	Recoverable Total
Calcium	11		0.25	0.13	mg/L	5		6020	Recoverable Total
Cobalt	0.013		0.0025	0.00040	mg/L	5		6020	Recoverable Total
Total Dissolved Solids	80		5.0	3.4	mg/L	1		SM 2540C	Recoverable Total/NA

Client Sample ID: FD-1 (AP)

Lab Sample ID: 400-128760-7

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chloride	2.1		1.0	0.89	mg/L	1		300.0	Total/NA
Sulfate	2.8		1.0	0.70	mg/L	1		300.0	Total/NA
Barium	0.058		0.0025	0.00049	mg/L	5		6020	Total
Calcium	2.5		0.25	0.13	mg/L	5		6020	Recoverable Total
Cobalt	0.019		0.0025	0.00040	mg/L	5		6020	Recoverable Total
Total Dissolved Solids	46		5.0	3.4	mg/L	1		SM 2540C	Recoverable Total/NA

This Detection Summary does not include radiochemical test results.

TestAmerica Pensacola

Method Summary

Client: Southern Company
Project/Site: CCR Plant Scherer

TestAmerica Job ID: 400-128760-1
SDG: Ash Pond

Method	Method Description	Protocol	Laboratory
300.0	Anions, Ion Chromatography	MCAWW	TAL PEN
6020	Metals (ICP/MS)	SW846	TAL PEN
7470A	Mercury (CVAA)	SW846	TAL PEN
SM 2540C	Solids, Total Dissolved (TDS)	SM	TAL PEN

Protocol References:

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:

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

Sample Summary

Client: Southern Company
Project/Site: CCR Plant Scherer

TestAmerica Job ID: 400-128760-1
SDG: Ash Pond

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
400-128760-1	SGWA-24	Water	10/13/16 15:26	10/14/16 08:56
400-128760-2	SGWA-1	Water	10/13/16 17:17	10/15/16 09:13
400-128760-3	SGWA-2	Water	10/14/16 10:30	10/15/16 09:13
400-128760-4	SGWA-3	Water	10/14/16 13:26	10/15/16 09:13
400-128760-5	SGWA-5	Water	10/14/16 15:28	10/15/16 09:13
400-128760-6	SGWA-25	Water	10/14/16 15:48	10/15/16 09:13
400-128760-7	FD-1 (AP)	Water	10/13/16 00:00	10/15/16 09:13

Client Sample Results

Client: Southern Company
Project/Site: CCR Plant Scherer

TestAmerica Job ID: 400-128760-1
SDG: Ash Pond

Client Sample ID: SGWA-24

Date Collected: 10/13/16 15:26

Date Received: 10/14/16 08:56

Lab Sample ID: 400-128760-1

Matrix: Water

Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	1.9		1.0	0.89	mg/L			10/26/16 15:58	1
Fluoride	<0.082		0.20	0.082	mg/L			10/26/16 15:58	1
Sulfate	<0.70		1.0	0.70	mg/L			10/26/16 15:58	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0010		0.0025	0.0010	mg/L		10/24/16 13:00	10/28/16 16:55	5
Arsenic	<0.00046		0.0013	0.00046	mg/L		10/24/16 13:00	10/28/16 16:55	5
Barium	0.022		0.0025	0.00049	mg/L		10/24/16 13:00	10/28/16 16:55	5
Beryllium	<0.00034		0.0025	0.00034	mg/L		10/24/16 13:00	10/28/16 16:55	5
Boron	<0.021		0.050	0.021	mg/L		10/24/16 13:00	10/28/16 16:55	5
Cadmium	<0.00034		0.0025	0.00034	mg/L		10/24/16 13:00	10/28/16 16:55	5
Calcium	12		0.25	0.13	mg/L		10/24/16 13:00	10/28/16 16:55	5
Chromium	0.0031		0.0025	0.0011	mg/L		10/24/16 13:00	10/28/16 16:55	5
Cobalt	0.00040	J	0.0025	0.00040	mg/L		10/24/16 13:00	10/28/16 16:55	5
Lead	<0.00035		0.0013	0.00035	mg/L		10/24/16 13:00	10/28/16 16:55	5
Lithium	<0.0032		0.0050	0.0032	mg/L		10/24/16 13:00	10/28/16 16:55	5
Molybdenum	<0.00085		0.015	0.00085	mg/L		10/24/16 13:00	10/28/16 16:55	5
Selenium	<0.00024		0.0013	0.00024	mg/L		10/24/16 13:00	10/28/16 16:55	5
Thallium	<0.000085		0.00050	0.000085	mg/L		10/24/16 13:00	10/28/16 16:55	5

Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.000070		0.00020	0.000070	mg/L		10/18/16 09:48	10/19/16 13:50	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	120		5.0	3.4	mg/L			10/18/16 19:03	1

Client Sample Results

Client: Southern Company
Project/Site: CCR Plant Scherer

TestAmerica Job ID: 400-128760-1
SDG: Ash Pond

Client Sample ID: SGWA-1

Date Collected: 10/13/16 17:17

Date Received: 10/15/16 09:13

Lab Sample ID: 400-128760-2

Matrix: Water

Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	2.0		1.0	0.89	mg/L			10/26/16 16:21	1
Fluoride	<0.082		0.20	0.082	mg/L			10/26/16 16:21	1
Sulfate	2.9		1.0	0.70	mg/L			10/26/16 16:21	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0010		0.0025	0.0010	mg/L		10/24/16 13:00	10/28/16 17:22	5
Arsenic	<0.00046		0.0013	0.00046	mg/L		10/24/16 13:00	10/28/16 17:22	5
Barium	0.061		0.0025	0.00049	mg/L		10/24/16 13:00	10/28/16 17:22	5
Beryllium	<0.00034		0.0025	0.00034	mg/L		10/24/16 13:00	10/28/16 17:22	5
Boron	<0.021		0.050	0.021	mg/L		10/24/16 13:00	10/28/16 17:22	5
Cadmium	<0.00034		0.0025	0.00034	mg/L		10/24/16 13:00	10/28/16 17:22	5
Calcium	2.7		0.25	0.13	mg/L		10/24/16 13:00	10/28/16 17:22	5
Chromium	<0.0011		0.0025	0.0011	mg/L		10/24/16 13:00	10/28/16 17:22	5
Cobalt	0.020		0.0025	0.00040	mg/L		10/24/16 13:00	10/28/16 17:22	5
Lead	<0.00035		0.0013	0.00035	mg/L		10/24/16 13:00	10/28/16 17:22	5
Lithium	<0.0032		0.0050	0.0032	mg/L		10/24/16 13:00	10/28/16 17:22	5
Molybdenum	<0.00085		0.015	0.00085	mg/L		10/24/16 13:00	10/28/16 17:22	5
Selenium	<0.00024		0.0013	0.00024	mg/L		10/24/16 13:00	10/28/16 17:22	5
Thallium	<0.000085		0.00050	0.000085	mg/L		10/24/16 13:00	10/28/16 17:22	5

Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.000070		0.00020	0.000070	mg/L		10/18/16 09:48	10/19/16 13:52	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	66		5.0	3.4	mg/L			10/18/16 19:03	1

Client Sample Results

Client: Southern Company
Project/Site: CCR Plant Scherer

TestAmerica Job ID: 400-128760-1
SDG: Ash Pond

Client Sample ID: SGWA-2

Lab Sample ID: 400-128760-3

Date Collected: 10/14/16 10:30

Matrix: Water

Date Received: 10/15/16 09:13

Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	1.4		1.0	0.89	mg/L			10/26/16 17:06	1
Fluoride	<0.082		0.20	0.082	mg/L			10/26/16 17:06	1
Sulfate	<0.70		1.0	0.70	mg/L			10/26/16 17:06	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0010		0.0025	0.0010	mg/L		10/24/16 13:00	10/28/16 17:26	5
Arsenic	<0.00046		0.0013	0.00046	mg/L		10/24/16 13:00	10/28/16 17:26	5
Barium	0.041		0.0025	0.00049	mg/L		10/24/16 13:00	10/28/16 17:26	5
Beryllium	<0.00034		0.0025	0.00034	mg/L		10/24/16 13:00	10/28/16 17:26	5
Boron	<0.021		0.050	0.021	mg/L		10/24/16 13:00	10/28/16 17:26	5
Cadmium	<0.00034		0.0025	0.00034	mg/L		10/24/16 13:00	10/28/16 17:26	5
Calcium	10		0.25	0.13	mg/L		10/24/16 13:00	10/28/16 17:26	5
Chromium	0.0045		0.0025	0.0011	mg/L		10/24/16 13:00	10/28/16 17:26	5
Cobalt	<0.00040		0.0025	0.00040	mg/L		10/24/16 13:00	10/28/16 17:26	5
Lead	<0.00035		0.0013	0.00035	mg/L		10/24/16 13:00	10/28/16 17:26	5
Lithium	<0.0032		0.0050	0.0032	mg/L		10/24/16 13:00	10/28/16 17:26	5
Molybdenum	<0.00085		0.015	0.00085	mg/L		10/24/16 13:00	10/28/16 17:26	5
Selenium	<0.00024		0.0013	0.00024	mg/L		10/24/16 13:00	10/28/16 17:26	5
Thallium	<0.000085		0.00050	0.000085	mg/L		10/24/16 13:00	10/28/16 17:26	5

Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.000070		0.00020	0.000070	mg/L		10/18/16 09:48	10/19/16 13:53	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	100		5.0	3.4	mg/L			10/20/16 16:15	1

Client Sample Results

Client: Southern Company
Project/Site: CCR Plant Scherer

TestAmerica Job ID: 400-128760-1
SDG: Ash Pond

Client Sample ID: SGWA-3

Date Collected: 10/14/16 13:26

Date Received: 10/15/16 09:13

Lab Sample ID: 400-128760-4

Matrix: Water

Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	3.1		1.0	0.89	mg/L			10/26/16 17:29	1
Fluoride	<0.082		0.20	0.082	mg/L			10/26/16 17:29	1
Sulfate	1.2		1.0	0.70	mg/L			10/26/16 17:29	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0010		0.0025	0.0010	mg/L		10/24/16 13:00	10/28/16 17:31	5
Arsenic	<0.00046		0.0013	0.00046	mg/L		10/24/16 13:00	10/28/16 17:31	5
Barium	0.034		0.0025	0.00049	mg/L		10/24/16 13:00	10/28/16 17:31	5
Beryllium	<0.00034		0.0025	0.00034	mg/L		10/24/16 13:00	10/28/16 17:31	5
Boron	<0.021		0.050	0.021	mg/L		10/24/16 13:00	10/28/16 17:31	5
Cadmium	<0.00034		0.0025	0.00034	mg/L		10/24/16 13:00	10/28/16 17:31	5
Calcium	5.4		0.25	0.13	mg/L		10/24/16 13:00	10/28/16 17:31	5
Chromium	0.0067		0.0025	0.0011	mg/L		10/24/16 13:00	10/28/16 17:31	5
Cobalt	<0.00040		0.0025	0.00040	mg/L		10/24/16 13:00	10/28/16 17:31	5
Lead	<0.00035		0.0013	0.00035	mg/L		10/24/16 13:00	10/28/16 17:31	5
Lithium	<0.0032		0.0050	0.0032	mg/L		10/24/16 13:00	10/28/16 17:31	5
Molybdenum	<0.00085		0.015	0.00085	mg/L		10/24/16 13:00	10/28/16 17:31	5
Selenium	<0.00024		0.0013	0.00024	mg/L		10/24/16 13:00	10/28/16 17:31	5
Thallium	<0.000085		0.00050	0.000085	mg/L		10/24/16 13:00	10/28/16 17:31	5

Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.000070		0.00020	0.000070	mg/L		10/18/16 09:48	10/19/16 13:54	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	34		5.0	3.4	mg/L			10/20/16 16:15	1

Client Sample Results

Client: Southern Company
Project/Site: CCR Plant Scherer

TestAmerica Job ID: 400-128760-1
SDG: Ash Pond

Client Sample ID: SGWA-5

Date Collected: 10/14/16 15:28

Date Received: 10/15/16 09:13

Lab Sample ID: 400-128760-5

Matrix: Water

Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	1.8		1.0	0.89	mg/L			10/26/16 17:52	1
Fluoride	<0.082		0.20	0.082	mg/L			10/26/16 17:52	1
Sulfate	<0.70		1.0	0.70	mg/L			10/26/16 17:52	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0010		0.0025	0.0010	mg/L		10/24/16 13:00	10/28/16 17:35	5
Arsenic	<0.00046		0.0013	0.00046	mg/L		10/24/16 13:00	10/28/16 17:35	5
Barium	0.010		0.0025	0.00049	mg/L		10/24/16 13:00	10/28/16 17:35	5
Beryllium	<0.00034		0.0025	0.00034	mg/L		10/24/16 13:00	10/28/16 17:35	5
Boron	<0.021		0.050	0.021	mg/L		10/24/16 13:00	10/28/16 17:35	5
Cadmium	<0.00034		0.0025	0.00034	mg/L		10/24/16 13:00	10/28/16 17:35	5
Calcium	1.4		0.25	0.13	mg/L		10/24/16 13:00	10/28/16 17:35	5
Chromium	0.0012	J	0.0025	0.0011	mg/L		10/24/16 13:00	10/28/16 17:35	5
Cobalt	<0.00040		0.0025	0.00040	mg/L		10/24/16 13:00	10/28/16 17:35	5
Lead	<0.00035		0.0013	0.00035	mg/L		10/24/16 13:00	10/28/16 17:35	5
Lithium	<0.0032		0.0050	0.0032	mg/L		10/24/16 13:00	10/28/16 17:35	5
Molybdenum	<0.00085		0.015	0.00085	mg/L		10/24/16 13:00	10/28/16 17:35	5
Selenium	<0.00024		0.0013	0.00024	mg/L		10/24/16 13:00	10/28/16 17:35	5
Thallium	<0.000085		0.00050	0.000085	mg/L		10/24/16 13:00	10/28/16 17:35	5

Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.000070		0.00020	0.000070	mg/L		10/18/16 09:48	10/19/16 13:55	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	58		5.0	3.4	mg/L			10/20/16 16:15	1

Client Sample Results

Client: Southern Company
Project/Site: CCR Plant Scherer

TestAmerica Job ID: 400-128760-1
SDG: Ash Pond

Client Sample ID: SGWA-25

Date Collected: 10/14/16 15:48

Date Received: 10/15/16 09:13

Lab Sample ID: 400-128760-6

Matrix: Water

Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	2.1		1.0	0.89	mg/L			10/26/16 19:00	1
Fluoride	<0.082		0.20	0.082	mg/L			10/26/16 19:00	1
Sulfate	<0.70		1.0	0.70	mg/L			10/26/16 19:00	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0010		0.0025	0.0010	mg/L		10/24/16 13:00	10/28/16 17:40	5
Arsenic	0.00073	J	0.0013	0.00046	mg/L		10/24/16 13:00	10/28/16 17:40	5
Barium	0.023		0.0025	0.00049	mg/L		10/24/16 13:00	10/28/16 17:40	5
Beryllium	<0.00034		0.0025	0.00034	mg/L		10/24/16 13:00	10/28/16 17:40	5
Boron	<0.021		0.050	0.021	mg/L		10/24/16 13:00	10/28/16 17:40	5
Cadmium	<0.00034		0.0025	0.00034	mg/L		10/24/16 13:00	10/28/16 17:40	5
Calcium	11		0.25	0.13	mg/L		10/24/16 13:00	10/28/16 17:40	5
Chromium	<0.0011		0.0025	0.0011	mg/L		10/24/16 13:00	10/28/16 17:40	5
Cobalt	0.013		0.0025	0.00040	mg/L		10/24/16 13:00	10/28/16 17:40	5
Lead	<0.00035		0.0013	0.00035	mg/L		10/24/16 13:00	10/28/16 17:40	5
Lithium	<0.0032		0.0050	0.0032	mg/L		10/24/16 13:00	10/28/16 17:40	5
Molybdenum	<0.00085		0.015	0.00085	mg/L		10/24/16 13:00	10/28/16 17:40	5
Selenium	<0.00024		0.0013	0.00024	mg/L		10/24/16 13:00	10/28/16 17:40	5
Thallium	<0.000085		0.00050	0.000085	mg/L		10/24/16 13:00	10/28/16 17:40	5

Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.000070		0.00020	0.000070	mg/L		10/18/16 09:48	10/19/16 13:56	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	80		5.0	3.4	mg/L			10/20/16 16:15	1

Client Sample Results

Client: Southern Company
Project/Site: CCR Plant Scherer

TestAmerica Job ID: 400-128760-1
SDG: Ash Pond

Client Sample ID: FD-1 (AP)

Date Collected: 10/13/16 00:00

Date Received: 10/15/16 09:13

Lab Sample ID: 400-128760-7

Matrix: Water

Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	2.1		1.0	0.89	mg/L			10/26/16 19:23	1
Fluoride	<0.082		0.20	0.082	mg/L			10/26/16 19:23	1
Sulfate	2.8		1.0	0.70	mg/L			10/26/16 19:23	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0010		0.0025	0.0010	mg/L		10/24/16 13:00	10/28/16 17:44	5
Arsenic	<0.00046		0.0013	0.00046	mg/L		10/24/16 13:00	10/28/16 17:44	5
Barium	0.058		0.0025	0.00049	mg/L		10/24/16 13:00	10/28/16 17:44	5
Beryllium	<0.00034		0.0025	0.00034	mg/L		10/24/16 13:00	10/28/16 17:44	5
Boron	<0.021		0.050	0.021	mg/L		10/24/16 13:00	10/28/16 17:44	5
Cadmium	<0.00034		0.0025	0.00034	mg/L		10/24/16 13:00	10/28/16 17:44	5
Calcium	2.5		0.25	0.13	mg/L		10/24/16 13:00	10/28/16 17:44	5
Chromium	<0.0011		0.0025	0.0011	mg/L		10/24/16 13:00	10/28/16 17:44	5
Cobalt	0.019		0.0025	0.00040	mg/L		10/24/16 13:00	10/28/16 17:44	5
Lead	<0.00035		0.0013	0.00035	mg/L		10/24/16 13:00	10/28/16 17:44	5
Lithium	<0.0032		0.0050	0.0032	mg/L		10/24/16 13:00	10/28/16 17:44	5
Molybdenum	<0.00085		0.015	0.00085	mg/L		10/24/16 13:00	10/28/16 17:44	5
Selenium	<0.00024		0.0013	0.00024	mg/L		10/24/16 13:00	10/28/16 17:44	5
Thallium	<0.000085		0.00050	0.000085	mg/L		10/24/16 13:00	10/28/16 17:44	5

Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.000070		0.00020	0.000070	mg/L		10/18/16 09:48	10/19/16 13:58	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	46		5.0	3.4	mg/L			10/18/16 19:03	1

Definitions/Glossary

Client: Southern Company
Project/Site: CCR Plant Scherer

TestAmerica Job ID: 400-128760-1
SDG: Ash Pond

Qualifiers

Metals

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.
F1	MS and/or MSD Recovery is outside acceptance limits.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
α	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CNF	Contains no Free Liquid
DER	Duplicate error ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision level concentration
MDA	Minimum detectable activity
EDL	Estimated Detection Limit
MDC	Minimum detectable concentration
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
NC	Not Calculated
ND	Not detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RER	Relative error ratio
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)

Lab Chronicle

Client: Southern Company
Project/Site: CCR Plant Scherer

TestAmerica Job ID: 400-128760-1
SDG: Ash Pond

Client Sample ID: SGWA-24

Date Collected: 10/13/16 15:26

Date Received: 10/14/16 08:56

Lab Sample ID: 400-128760-1

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	300.0		1	328418	10/26/16 15:58	TAJ	TAL PEN
Total Recoverable	Prep	3005A			327627	10/24/16 13:00	RJB	TAL PEN
Total Recoverable	Analysis	6020		5	328746	10/28/16 16:55	AJR	TAL PEN
Total/NA	Prep	7470A			327147	10/18/16 09:48	JAP	TAL PEN
Total/NA	Analysis	7470A		1	327421	10/19/16 13:50	JAP	TAL PEN
Total/NA	Analysis	SM 2540C		1	327266	10/18/16 19:03	TET	TAL PEN

Client Sample ID: SGWA-1

Date Collected: 10/13/16 17:17

Date Received: 10/15/16 09:13

Lab Sample ID: 400-128760-2

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	300.0		1	328418	10/26/16 16:21	TAJ	TAL PEN
Total Recoverable	Prep	3005A			327627	10/24/16 13:00	RJB	TAL PEN
Total Recoverable	Analysis	6020		5	328746	10/28/16 17:22	AJR	TAL PEN
Total/NA	Prep	7470A			327147	10/18/16 09:48	JAP	TAL PEN
Total/NA	Analysis	7470A		1	327421	10/19/16 13:52	JAP	TAL PEN
Total/NA	Analysis	SM 2540C		1	327266	10/18/16 19:03	TET	TAL PEN

Client Sample ID: SGWA-2

Date Collected: 10/14/16 10:30

Date Received: 10/15/16 09:13

Lab Sample ID: 400-128760-3

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	300.0		1	328418	10/26/16 17:06	TAJ	TAL PEN
Total Recoverable	Prep	3005A			327627	10/24/16 13:00	RJB	TAL PEN
Total Recoverable	Analysis	6020		5	328746	10/28/16 17:26	AJR	TAL PEN
Total/NA	Prep	7470A			327147	10/18/16 09:48	JAP	TAL PEN
Total/NA	Analysis	7470A		1	327421	10/19/16 13:53	JAP	TAL PEN
Total/NA	Analysis	SM 2540C		1	327635	10/20/16 16:15	TET	TAL PEN

Client Sample ID: SGWA-3

Date Collected: 10/14/16 13:26

Date Received: 10/15/16 09:13

Lab Sample ID: 400-128760-4

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	300.0		1	328418	10/26/16 17:29	TAJ	TAL PEN
Total Recoverable	Prep	3005A			327627	10/24/16 13:00	RJB	TAL PEN
Total Recoverable	Analysis	6020		5	328746	10/28/16 17:31	AJR	TAL PEN
Total/NA	Prep	7470A			327147	10/18/16 09:48	JAP	TAL PEN
Total/NA	Analysis	7470A		1	327421	10/19/16 13:54	JAP	TAL PEN
Total/NA	Analysis	SM 2540C		1	327635	10/20/16 16:15	TET	TAL PEN

TestAmerica Pensacola

Lab Chronicle

Client: Southern Company
Project/Site: CCR Plant Scherer

TestAmerica Job ID: 400-128760-1
SDG: Ash Pond

Client Sample ID: SGWA-5

Lab Sample ID: 400-128760-5

Date Collected: 10/14/16 15:28

Matrix: Water

Date Received: 10/15/16 09:13

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	300.0		1	328418	10/26/16 17:52	TAJ	TAL PEN
Total Recoverable	Prep	3005A			327627	10/24/16 13:00	RJB	TAL PEN
Total Recoverable	Analysis	6020		5	328746	10/28/16 17:35	AJR	TAL PEN
Total/NA	Prep	7470A			327147	10/18/16 09:48	JAP	TAL PEN
Total/NA	Analysis	7470A		1	327421	10/19/16 13:55	JAP	TAL PEN
Total/NA	Analysis	SM 2540C		1	327635	10/20/16 16:15	TET	TAL PEN

Client Sample ID: SGWA-25

Lab Sample ID: 400-128760-6

Date Collected: 10/14/16 15:48

Matrix: Water

Date Received: 10/15/16 09:13

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	300.0		1	328418	10/26/16 19:00	TAJ	TAL PEN
Total Recoverable	Prep	3005A			327627	10/24/16 13:00	RJB	TAL PEN
Total Recoverable	Analysis	6020		5	328746	10/28/16 17:40	AJR	TAL PEN
Total/NA	Prep	7470A			327147	10/18/16 09:48	JAP	TAL PEN
Total/NA	Analysis	7470A		1	327421	10/19/16 13:56	JAP	TAL PEN
Total/NA	Analysis	SM 2540C		1	327635	10/20/16 16:15	TET	TAL PEN

Client Sample ID: FD-1 (AP)

Lab Sample ID: 400-128760-7

Date Collected: 10/13/16 00:00

Matrix: Water

Date Received: 10/15/16 09:13

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	300.0		1	328418	10/26/16 19:23	TAJ	TAL PEN
Total Recoverable	Prep	3005A			327627	10/24/16 13:00	RJB	TAL PEN
Total Recoverable	Analysis	6020		5	328746	10/28/16 17:44	AJR	TAL PEN
Total/NA	Prep	7470A			327147	10/18/16 09:48	JAP	TAL PEN
Total/NA	Analysis	7470A		1	327421	10/19/16 13:58	JAP	TAL PEN
Total/NA	Analysis	SM 2540C		1	327266	10/18/16 19:03	TET	TAL PEN

Laboratory References:

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

QC Association Summary

Client: Southern Company
Project/Site: CCR Plant Scherer

TestAmerica Job ID: 400-128760-1
SDG: Ash Pond

HPLC/IC

Analysis Batch: 328418

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-128760-1	SGWA-24	Total/NA	Water	300.0	
400-128760-2	SGWA-1	Total/NA	Water	300.0	
400-128760-3	SGWA-2	Total/NA	Water	300.0	
400-128760-4	SGWA-3	Total/NA	Water	300.0	
400-128760-5	SGWA-5	Total/NA	Water	300.0	
400-128760-6	SGWA-25	Total/NA	Water	300.0	
400-128760-7	FD-1 (AP)	Total/NA	Water	300.0	
MB 400-328418/4	Method Blank	Total/NA	Water	300.0	
LCS 400-328418/5	Lab Control Sample	Total/NA	Water	300.0	
LCS 400-328418/6	Lab Control Sample Dup	Total/NA	Water	300.0	
400-128760-2 MS	SGWA-1	Total/NA	Water	300.0	

Metals

Prep Batch: 327147

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-128760-1	SGWA-24	Total/NA	Water	7470A	
400-128760-2	SGWA-1	Total/NA	Water	7470A	
400-128760-3	SGWA-2	Total/NA	Water	7470A	
400-128760-4	SGWA-3	Total/NA	Water	7470A	
400-128760-5	SGWA-5	Total/NA	Water	7470A	
400-128760-6	SGWA-25	Total/NA	Water	7470A	
400-128760-7	FD-1 (AP)	Total/NA	Water	7470A	
MB 400-327147/14-A	Method Blank	Total/NA	Water	7470A	
LCS 400-327147/15-A	Lab Control Sample	Total/NA	Water	7470A	
400-128756-B-1-C MS	Matrix Spike	Total/NA	Water	7470A	
400-128756-B-1-D MSD	Matrix Spike Duplicate	Total/NA	Water	7470A	

Analysis Batch: 327421

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-128760-1	SGWA-24	Total/NA	Water	7470A	327147
400-128760-2	SGWA-1	Total/NA	Water	7470A	327147
400-128760-3	SGWA-2	Total/NA	Water	7470A	327147
400-128760-4	SGWA-3	Total/NA	Water	7470A	327147
400-128760-5	SGWA-5	Total/NA	Water	7470A	327147
400-128760-6	SGWA-25	Total/NA	Water	7470A	327147
400-128760-7	FD-1 (AP)	Total/NA	Water	7470A	327147
MB 400-327147/14-A	Method Blank	Total/NA	Water	7470A	327147
LCS 400-327147/15-A	Lab Control Sample	Total/NA	Water	7470A	327147
400-128756-B-1-C MS	Matrix Spike	Total/NA	Water	7470A	327147
400-128756-B-1-D MSD	Matrix Spike Duplicate	Total/NA	Water	7470A	327147

Prep Batch: 327627

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-128760-1	SGWA-24	Total Recoverable	Water	3005A	
400-128760-2	SGWA-1	Total Recoverable	Water	3005A	
400-128760-3	SGWA-2	Total Recoverable	Water	3005A	
400-128760-4	SGWA-3	Total Recoverable	Water	3005A	
400-128760-5	SGWA-5	Total Recoverable	Water	3005A	
400-128760-6	SGWA-25	Total Recoverable	Water	3005A	

TestAmerica Pensacola

QC Association Summary

Client: Southern Company
Project/Site: CCR Plant Scherer

TestAmerica Job ID: 400-128760-1
SDG: Ash Pond

Metals (Continued)

Prep Batch: 327627 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-128760-7	FD-1 (AP)	Total Recoverable	Water	3005A	
MB 400-327627/1-A ^5	Method Blank	Total Recoverable	Water	3005A	
LCS 400-327627/2-A	Lab Control Sample	Total Recoverable	Water	3005A	
400-128811-B-1-F MS ^5	Matrix Spike	Total Recoverable	Water	3005A	
400-128811-B-1-G MSD ^5	Matrix Spike Duplicate	Total Recoverable	Water	3005A	

Analysis Batch: 328560

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 400-327627/1-A ^5	Method Blank	Total Recoverable	Water	6020	327627
LCS 400-327627/2-A	Lab Control Sample	Total Recoverable	Water	6020	327627

Analysis Batch: 328746

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-128760-1	SGWA-24	Total Recoverable	Water	6020	327627
400-128760-2	SGWA-1	Total Recoverable	Water	6020	327627
400-128760-3	SGWA-2	Total Recoverable	Water	6020	327627
400-128760-4	SGWA-3	Total Recoverable	Water	6020	327627
400-128760-5	SGWA-5	Total Recoverable	Water	6020	327627
400-128760-6	SGWA-25	Total Recoverable	Water	6020	327627
400-128760-7	FD-1 (AP)	Total Recoverable	Water	6020	327627
400-128811-B-1-F MS ^5	Matrix Spike	Total Recoverable	Water	6020	327627
400-128811-B-1-G MSD ^5	Matrix Spike Duplicate	Total Recoverable	Water	6020	327627

General Chemistry

Analysis Batch: 327266

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-128760-1	SGWA-24	Total/NA	Water	SM 2540C	
400-128760-2	SGWA-1	Total/NA	Water	SM 2540C	
400-128760-7	FD-1 (AP)	Total/NA	Water	SM 2540C	
MB 400-327266/1	Method Blank	Total/NA	Water	SM 2540C	
LCS 400-327266/2	Lab Control Sample	Total/NA	Water	SM 2540C	
400-128611-A-9 DU	Duplicate	Total/NA	Water	SM 2540C	

Analysis Batch: 327635

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-128760-3	SGWA-2	Total/NA	Water	SM 2540C	
400-128760-4	SGWA-3	Total/NA	Water	SM 2540C	
400-128760-5	SGWA-5	Total/NA	Water	SM 2540C	
400-128760-6	SGWA-25	Total/NA	Water	SM 2540C	
MB 400-327635/1	Method Blank	Total/NA	Water	SM 2540C	
LCS 400-327635/2	Lab Control Sample	Total/NA	Water	SM 2540C	
400-128648-A-1 DU	Duplicate	Total/NA	Water	SM 2540C	

QC Sample Results

Client: Southern Company
Project/Site: CCR Plant Scherer

TestAmerica Job ID: 400-128760-1
SDG: Ash Pond

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 400-328418/4
Matrix: Water
Analysis Batch: 328418

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<0.89		1.0	0.89	mg/L			10/26/16 09:52	1
Fluoride	<0.082		0.20	0.082	mg/L			10/26/16 09:52	1
Sulfate	<0.70		1.0	0.70	mg/L			10/26/16 09:52	1

Lab Sample ID: LCS 400-328418/5
Matrix: Water
Analysis Batch: 328418

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloride	10.0	10.0		mg/L		100	90 - 110
Fluoride	10.0	10.6		mg/L		106	90 - 110
Sulfate	10.0	10.4		mg/L		104	90 - 110

Lab Sample ID: LCSD 400-328418/6
Matrix: Water
Analysis Batch: 328418

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
Chloride	10.0	10.0		mg/L		100	90 - 110	0	15
Fluoride	10.0	10.6		mg/L		106	90 - 110	0	15
Sulfate	10.0	10.5		mg/L		105	90 - 110	1	15

Lab Sample ID: 400-128760-2 MS
Matrix: Water
Analysis Batch: 328418

Client Sample ID: SGWA-1
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	12.4		mg/L		104	80 - 120
Fluoride	<0.082		10.0	11.0		mg/L		110	80 - 120
Sulfate	2.9		10.0	13.8		mg/L		109	80 - 120

Method: 6020 - Metals (ICP/MS)

Lab Sample ID: MB 400-327627/1-A ^5
Matrix: Water
Analysis Batch: 328560

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 327627

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0010		0.0025	0.0010	mg/L		10/24/16 13:00	10/27/16 22:19	5
Arsenic	<0.00046		0.0013	0.00046	mg/L		10/24/16 13:00	10/27/16 22:19	5
Barium	<0.00049		0.0025	0.00049	mg/L		10/24/16 13:00	10/27/16 22:19	5
Beryllium	<0.00034		0.0025	0.00034	mg/L		10/24/16 13:00	10/27/16 22:19	5
Boron	<0.021		0.050	0.021	mg/L		10/24/16 13:00	10/27/16 22:19	5
Cadmium	<0.00034		0.0025	0.00034	mg/L		10/24/16 13:00	10/27/16 22:19	5
Calcium	<0.13		0.25	0.13	mg/L		10/24/16 13:00	10/27/16 22:19	5
Chromium	<0.0011		0.0025	0.0011	mg/L		10/24/16 13:00	10/27/16 22:19	5
Cobalt	<0.00040		0.0025	0.00040	mg/L		10/24/16 13:00	10/27/16 22:19	5
Lead	<0.00035		0.0013	0.00035	mg/L		10/24/16 13:00	10/27/16 22:19	5
Lithium	<0.0032		0.0050	0.0032	mg/L		10/24/16 13:00	10/27/16 22:19	5

TestAmerica Pensacola

QC Sample Results

Client: Southern Company
Project/Site: CCR Plant Scherer

TestAmerica Job ID: 400-128760-1
SDG: Ash Pond

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

Lab Sample ID: MB 400-327627/1-A ^5
Matrix: Water
Analysis Batch: 328560

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 327627

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Molybdenum	<0.00085		0.015	0.00085	mg/L		10/24/16 13:00	10/27/16 22:19	5
Selenium	<0.00024		0.0013	0.00024	mg/L		10/24/16 13:00	10/27/16 22:19	5
Thallium	<0.000085		0.00050	0.000085	mg/L		10/24/16 13:00	10/27/16 22:19	5

Lab Sample ID: LCS 400-327627/2-A
Matrix: Water
Analysis Batch: 328560

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 327627

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	Limits
Antimony	0.0500	0.0523		mg/L		105	80 - 120
Arsenic	0.0500	0.0518		mg/L		104	80 - 120
Barium	0.0500	0.0498		mg/L		100	80 - 120
Beryllium	0.0500	0.0505		mg/L		101	80 - 120
Boron	0.100	0.0936		mg/L		94	80 - 120
Cadmium	0.0500	0.0510		mg/L		102	80 - 120
Calcium	5.00	5.09		mg/L		102	80 - 120
Chromium	0.0500	0.0488		mg/L		98	80 - 120
Cobalt	0.0500	0.0482		mg/L		96	80 - 120
Lead	0.0500	0.0442		mg/L		88	80 - 120
Lithium	0.0500	0.0449		mg/L		90	80 - 120
Molybdenum	0.0500	0.0505		mg/L		101	80 - 120
Selenium	0.0500	0.0525		mg/L		105	80 - 120
Thallium	0.0100	0.0104		mg/L		104	80 - 120

Lab Sample ID: 400-128811-B-1-F MS ^5
Matrix: Water
Analysis Batch: 328746

Client Sample ID: Matrix Spike
Prep Type: Total Recoverable
Prep Batch: 327627

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	Limits
Antimony	<0.0010		0.0625	0.0654		mg/L		105	75 - 125
Arsenic	<0.00046		0.0625	0.0676		mg/L		108	75 - 125
Barium	0.032		0.0625	0.0968		mg/L		103	75 - 125
Beryllium	<0.00034		0.0625	0.0627		mg/L		100	75 - 125
Boron	<0.021		0.125	0.137		mg/L		109	75 - 125
Cadmium	<0.00034		0.0625	0.0641		mg/L		103	75 - 125
Calcium	21		6.25	28.9		mg/L		119	75 - 125
Chromium	0.0023	J	0.0625	0.0660		mg/L		102	75 - 125
Cobalt	0.0030		0.0625	0.0690		mg/L		106	75 - 125
Lead	<0.00035	F1	0.0625	0.0475		mg/L		76	75 - 125
Lithium	<0.0032		0.0625	0.0607		mg/L		97	75 - 125
Molybdenum	<0.00085		0.0625	0.0652		mg/L		104	75 - 125
Selenium	<0.00024		0.0625	0.0649		mg/L		104	75 - 125
Thallium	<0.000085		0.0125	0.0122		mg/L		98	75 - 125

QC Sample Results

Client: Southern Company
Project/Site: CCR Plant Scherer

TestAmerica Job ID: 400-128760-1
SDG: Ash Pond

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

Lab Sample ID: 400-128811-B-1-G MSD ^5
Matrix: Water
Analysis Batch: 328746

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total Recoverable
Prep Batch: 327627

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Antimony	<0.0010		0.0625	0.0624		mg/L		100	75 - 125	5	20
Arsenic	<0.00046		0.0625	0.0655		mg/L		105	75 - 125	3	20
Barium	0.032		0.0625	0.0947		mg/L		100	75 - 125	2	20
Beryllium	<0.00034		0.0625	0.0616		mg/L		99	75 - 125	2	20
Boron	<0.021		0.125	0.126		mg/L		101	75 - 125	8	20
Cadmium	<0.00034		0.0625	0.0640		mg/L		102	75 - 125	0	20
Calcium	21		6.25	27.9		mg/L		104	75 - 125	3	20
Chromium	0.0023	J	0.0625	0.0628		mg/L		97	75 - 125	5	20
Cobalt	0.0030		0.0625	0.0674		mg/L		103	75 - 125	2	20
Lead	<0.00035	F1	0.0625	0.0460	F1	mg/L		74	75 - 125	3	20
Lithium	<0.0032		0.0625	0.0580		mg/L		93	75 - 125	5	20
Molybdenum	<0.00085		0.0625	0.0635		mg/L		102	75 - 125	3	20
Selenium	<0.00024		0.0625	0.0622		mg/L		100	75 - 125	4	20
Thallium	<0.000085		0.0125	0.0120		mg/L		96	75 - 125	2	20

Method: 7470A - Mercury (CVAA)

Lab Sample ID: MB 400-327147/14-A
Matrix: Water
Analysis Batch: 327421

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 327147

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.000070		0.00020	0.000070	mg/L		10/18/16 09:30	10/19/16 13:27	1

Lab Sample ID: LCS 400-327147/15-A
Matrix: Water
Analysis Batch: 327421

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 327147

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	Limits
Mercury	0.00101	0.00101		mg/L		100	80 - 120

Lab Sample ID: 400-128756-B-1-C MS
Matrix: Water
Analysis Batch: 327421

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 327147

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	Limits
Mercury	<0.000070		0.00201	0.00189		mg/L		94	80 - 120

Lab Sample ID: 400-128756-B-1-D MSD
Matrix: Water
Analysis Batch: 327421

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA
Prep Batch: 327147

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Mercury	<0.000070		0.00201	0.00182		mg/L		91	80 - 120	3	20

QC Sample Results

Client: Southern Company
Project/Site: CCR Plant Scherer

TestAmerica Job ID: 400-128760-1
SDG: Ash Pond

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

Lab Sample ID: MB 400-327266/1
Matrix: Water
Analysis Batch: 327266

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	<3.4		5.0	3.4	mg/L			10/18/16 19:03	1

Lab Sample ID: LCS 400-327266/2
Matrix: Water
Analysis Batch: 327266

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

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

Lab Sample ID: 400-128611-A-9 DU
Matrix: Water
Analysis Batch: 327266

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	300		302		mg/L		0.7	5

Lab Sample ID: MB 400-327635/1
Matrix: Water
Analysis Batch: 327635

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	<3.4		5.0	3.4	mg/L			10/20/16 16:15	1

Lab Sample ID: LCS 400-327635/2
Matrix: Water
Analysis Batch: 327635

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: 400-128648-A-1 DU
Matrix: Water
Analysis Batch: 327635

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	36		36.0		mg/L		0	5

Chain of Custody Record



Client Information		Sampler: Dan Childress	Lab PM: Whitmire, Cheyenne R	Carrier Tracking No(s):	COC No: 400-57303-24790.8								
Client Contact: Joju Abraham		Phone: (919) 410-4739	E-Mail: cheyenne.whitmire@testamericainc.com		Page 1 of 1								
Company: Southern Company		Due Date Requested:	Analysis Requested										
Address: 241 Ralph McGill Blvd SE B10185		TAT Requested (days):	Total Number of containers										
City: Atlanta		PO #: GPC10624814	Preservation Codes:										
State: GA, 30308		WC #:	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 Other:										
Email: j.abraham@southernco.com		Project #: 40007041	M - Hexane N - None O - AsnO2 P - Na2O4S Q - Na2SO3 R - Na2SO4 S - H2SO4 T - TSP Dodecahydrate U - Acetone V - MCAA W - ph 4-5 Z - other (specify)										
Site: Ash Pond		SSOW#:	Special Instructions/Note:										
Sample Identification	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=oil, BT=BIOM, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	2840C-TDS, 300_ORGFM, 28D-Chloride, Fluoride, Sulfate	6020-Sb, As, Ba, B, Be, Cd, Cr, Co, Pb, Li, Mo, Se, Ti, T, 7470A-Hg	9316_Ra226, 9320_Ra228, 9320_Ra228, Ra226Ra228_GFPc	I	D	D	Special Instructions/Note:
SGWA-1	10/13/16	1717	G	Water	N	N	1	1	1	N	D	D	
SGWA-2	10/14/16	1030	G	Water	N	N	1	1	1	N	D	D	
SGWA-3	10/14/16	1326	G	Water	N	N	1	1	1	N	D	D	
SGWA-5	10/14/16	1528	G	Water	N	N	1	1	1	N	D	D	
SGWA-25	10/14/16	1548	G	Water	N	N	1	1	1	N	D	D	
FD-1 (AP)	10/13/16	---	G	Water	N	N	1	1	1	N	D	D	
Possible Hazard Identification <input checked="" type="checkbox"/> Non-Hazard <input type="checkbox"/> Flammable <input type="checkbox"/> Skin Irritant <input type="checkbox"/> Poison B <input type="checkbox"/> Unknown <input type="checkbox"/> Radiological													
Deliverable Requested: <input type="checkbox"/> I, <input type="checkbox"/> II, <input type="checkbox"/> III, <input type="checkbox"/> IV, Other (specify)													
Empty Kit Relinquished by: _____ Date: _____													
Relinquished by: <i>[Signature]</i> Date: 10/14/16 1830 Company: Golden													
Relinquished by: _____ Date/Time: _____ Company: _____													
Relinquished by: _____ Date/Time: _____ Company: _____													
Custody Seals Intact: <input type="checkbox"/> Yes <input type="checkbox"/> No Cooler Temperature(s) °C and Other Remarks:													



3355 McClamore Drive
 Pensacola, FL 32514
 Phone (850) 474-1001 Fax (850) 478-2671

Chain of Custody Record

Client Information Client Contact: Joju Abraham Company: Southern Company Address: 241 Ralph McGill Blvd SE B10185 City: Atlanta State, Zip: GA, 30308 Phone: Email: JAbraham@southernco.com Project Name: CCR - Scherer Site: Ash Pond		Sampler: Ben Hodges Phone: 912-258-7457 Lab PM: Whitmire, Chyenne R E-Mail: chyenne.whitmire@testamericainc.com		Carrier Tracking No(s): 400-57303-24790.8 Page: Page 8 of 8 Job #: _____	
Due Date Requested: TAT Requested (days): PO #: GPC10624814 WG #: Project #: 40007041 SSOV#:		Analysis Requested 2540C-TDS, 300_ORGM, 28D-Chloride, Fluoride, Sulfate Perform MS/MSD (Yes or No)			
Sample Identification SGWA-24		Sample Date 10/13/16		Sample Time 1526	
Sample Type (C=comp, G=grab) G		Matrix (W=water, S=solid, O=soil, BT=Tissue, A=Air) Water		Field Filtered Sample (Yes or No) N	
Preservation Code: 1526		Preservation Code: G		Preservation Code: Water	
Total Number of containers 3		Special Instructions/Note: _____		Special Instructions/Note: _____	
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 Other: M - Hexane N - None O - AsNaO2 P - Na2O4S Q - Na2SO3 R - Na2SO4 S - H2SO4 T - TSP Dodecahydrate U - Acetone V - MCAA W - ph 4-5 Z - other (specify)		Special Instructions/Note: _____			
Possible Hazard Identification <input checked="" type="checkbox"/> Non-Hazard <input type="checkbox"/> Flammable <input type="checkbox"/> Skin Irritant <input type="checkbox"/> Poison B <input type="checkbox"/> Unknown <input type="checkbox"/> Radiological					
Deliverable Requested: 1, II, III, IV, Other (specify)					
Empty Kit Relinquished by: _____ Date: _____					
Relinquished by: <i>Ben Hodges</i> Date: 10/13/16 1700 Company: Golden					
Relinquished by: _____ Date/Time: _____ Company: _____					
Relinquished by: _____ Date/Time: _____ Company: _____					
Custody Seals Intact: <input type="checkbox"/> Yes <input type="checkbox"/> No Custody Seal No.: _____					



Login Sample Receipt Checklist

Client: Southern Company

Job Number: 400-128760-1

SDG Number: Ash Pond

Login Number: 128760

List Number: 1

Creator: Siddoway, Benjamin

List Source: TestAmerica Pensacola

Question	Answer	Comment
Radioactivity wasn't checked or is \leq background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	True	898675, 898678, 898679
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, 0.8°C IR-5
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 <math><6\text{mm}</math> (1/4").	N/A	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

Certification Summary

Client: Southern Company
 Project/Site: CCR Plant Scherer

TestAmerica Job ID: 400-128760-1
 SDG: Ash Pond

Laboratory: TestAmerica Pensacola

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

Authority	Program	EPA Region	Certification ID	Expiration Date
Alabama	State Program	4	40150	06-30-17
Arizona	State Program	9	AZ0710	01-11-17
Arkansas DEQ	State Program	6	88-0689	09-01-17
California	ELAP	9	2510	03-31-18
Florida	NELAP	4	E81010	06-30-17
Georgia	State Program	4	N/A	06-30-17
Illinois	NELAP	5	200041	10-09-17
Iowa	State Program	7	367	08-01-18
Kansas	NELAP	7	E-10253	10-31-17
Kentucky (UST)	State Program	4	53	06-30-17
Kentucky (WW)	State Program	4	98030	12-31-16
Louisiana	NELAP	6	30976	06-30-17
Maryland	State Program	3	233	09-30-17
Massachusetts	State Program	1	M-FL094	06-30-17
Michigan	State Program	5	9912	05-06-17
New Jersey	NELAP	2	FL006	06-30-17
North Carolina (WW/SW)	State Program	4	314	12-31-16
Oklahoma	State Program	6	9810	08-31-17
Pennsylvania	NELAP	3	68-00467	01-31-17
Rhode Island	State Program	1	LAO00307	12-30-16
South Carolina	State Program	4	96026	06-30-16 *
Tennessee	State Program	4	TN02907	06-30-17
Texas	NELAP	6	T104704286-16-10	09-30-17
USDA	Federal		P330-16-00172	05-24-19
Virginia	NELAP	3	460166	06-14-17
Washington	State Program	10	C915	05-15-17
West Virginia DEP	State Program	3	136	06-30-17

* Certification renewal pending - certification considered valid.



TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

TestAmerica Laboratories, Inc.

TestAmerica Pensacola

3355 McLemore Drive

Pensacola, FL 32514

Tel: (850)474-1001

TestAmerica Job ID: 400-128760-2

TestAmerica Sample Delivery Group: Ash Pond

Client Project/Site: CCR Plant Scherer

For:

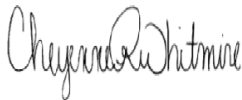
Southern Company

241 Ralph McGill Blvd SE

B10185

Atlanta, Georgia 30308

Attn: Joju Abraham



Authorized for release by:

11/29/2016 11:01:02 AM

Cheyenne Whitmire, Project Manager II

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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.

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10

11

12

13



Table of Contents

Cover Page	1
Table of Contents	2
Case Narrative	3
Method Summary	4
Sample Summary	5
Client Sample Results	6
Definitions	13
Chronicle	14
QC Association	16
QC Sample Results	17
Chain of Custody	21
Receipt Checklists	23
Certification Summary	24

Case Narrative

Client: Southern Company
Project/Site: CCR Plant Scherer

TestAmerica Job ID: 400-128760-2
SDG: Ash Pond

Job ID: 400-128760-2

Laboratory: TestAmerica Pensacola

Narrative

**Job Narrative
400-128760-2**

RAD

Method(s) PrecSep_0: Radium-228 Prep Batch 160-275155: Insufficient sample volume was available to perform a sample duplicate (DUP) for the following samples: SGWA-24 (400-128760-1). A laboratory control sample/ laboratory control sample duplicate (LCS/LCSD) were prepared instead to demonstrate batch precision.

Method(s) PrecSep-21: Radium-226 Prep Batch 160-275138: Insufficient sample volume was available to perform a sample duplicate (DUP) for the following samples: SGWA-24 (400-128760-1). A laboratory control sample/ laboratory control sample duplicate (LCS/LCSD) were prepared instead to demonstrate batch precision.

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- 2
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- 9
- 10
- 11
- 12
- 13

Method Summary

Client: Southern Company
Project/Site: CCR Plant Scherer

TestAmerica Job ID: 400-128760-2
SDG: Ash Pond

Method	Method Description	Protocol	Laboratory
9315	Radium-226 (GFPC)	SW846	TAL SL
9320	Radium-228 (GFPC)	SW846	TAL SL
Ra226_Ra228	Combined Radium-226 and Radium-228	TAL-STL	TAL SL

Protocol References:

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:

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



Sample Summary

Client: Southern Company
Project/Site: CCR Plant Scherer

TestAmerica Job ID: 400-128760-2
SDG: Ash Pond

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
400-128760-1	SGWA-24	Water	10/13/16 15:26	10/14/16 08:56
400-128760-2	SGWA-1	Water	10/13/16 17:17	10/15/16 09:13
400-128760-3	SGWA-2	Water	10/14/16 10:30	10/15/16 09:13
400-128760-4	SGWA-3	Water	10/14/16 13:26	10/15/16 09:13
400-128760-5	SGWA-5	Water	10/14/16 15:28	10/15/16 09:13
400-128760-6	SGWA-25	Water	10/14/16 15:48	10/15/16 09:13
400-128760-7	FD-1 (AP)	Water	10/13/16 00:00	10/15/16 09:13

Client Sample Results

Client: Southern Company
Project/Site: CCR Plant Scherer

TestAmerica Job ID: 400-128760-2
SDG: Ash Pond

Client Sample ID: SGWA-24

Lab Sample ID: 400-128760-1

Date Collected: 10/13/16 15:26

Matrix: Water

Date Received: 10/14/16 08:56

Method: 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.120	U	0.130	0.130	1.00	0.209	pCi/L	10/19/16 10:32	11/15/16 07:21	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	85.8		40 - 110					10/19/16 10:32	11/15/16 07:21	1

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.207	U	0.245	0.246	1.00	0.404	pCi/L	10/19/16 11:44	11/14/16 16:11	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	85.8		40 - 110					10/19/16 11:44	11/14/16 16:11	1
Y Carrier	85.6		40 - 110					10/19/16 11:44	11/14/16 16:11	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	0.327	U	0.277	0.278	5.00	0.404	pCi/L		11/17/16 12:20	1

Client Sample Results

Client: Southern Company
Project/Site: CCR Plant Scherer

TestAmerica Job ID: 400-128760-2
SDG: Ash Pond

Client Sample ID: SGWA-1

Lab Sample ID: 400-128760-2

Date Collected: 10/13/16 17:17

Matrix: Water

Date Received: 10/15/16 09:13

Method: 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.134	U	0.149	0.149	1.00	0.242	pCi/L	10/19/16 13:08	11/16/16 22:20	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	93.2		40 - 110					10/19/16 13:08	11/16/16 22:20	1

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.174	U	0.227	0.228	1.00	0.378	pCi/L	10/19/16 15:28	11/16/16 14:33	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	93.2		40 - 110					10/19/16 15:28	11/16/16 14:33	1
Y Carrier	87.5		40 - 110					10/19/16 15:28	11/16/16 14:33	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	0.309	U	0.272	0.272	5.00	0.378	pCi/L		11/17/16 12:20	1

Client Sample Results

Client: Southern Company
Project/Site: CCR Plant Scherer

TestAmerica Job ID: 400-128760-2
SDG: Ash Pond

Client Sample ID: SGWA-2

Lab Sample ID: 400-128760-3

Date Collected: 10/14/16 10:30

Matrix: Water

Date Received: 10/15/16 09:13

Method: 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.0273	U	0.139	0.139	1.00	0.261	pCi/L	10/19/16 13:08	11/16/16 22:21	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	81.5		40 - 110					10/19/16 13:08	11/16/16 22:21	1

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.738		0.331	0.338	1.00	0.481	pCi/L	10/19/16 15:28	11/16/16 14:35	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	81.5		40 - 110					10/19/16 15:28	11/16/16 14:35	1
Y Carrier	84.1		40 - 110					10/19/16 15:28	11/16/16 14:35	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	0.765		0.359	0.365	5.00	0.481	pCi/L		11/17/16 12:20	1

Client Sample Results

Client: Southern Company
Project/Site: CCR Plant Scherer

TestAmerica Job ID: 400-128760-2
SDG: Ash Pond

Client Sample ID: SGWA-3

Lab Sample ID: 400-128760-4

Date Collected: 10/14/16 13:26

Matrix: Water

Date Received: 10/15/16 09:13

Method: 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	-0.0641	U	0.133	0.134	1.00	0.280	pCi/L	10/19/16 13:08	11/16/16 22:21	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	82.9		40 - 110					10/19/16 13:08	11/16/16 22:21	1

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.409	U	0.298	0.301	1.00	0.469	pCi/L	10/19/16 15:28	11/16/16 14:36	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	82.9		40 - 110					10/19/16 15:28	11/16/16 14:36	1
Y Carrier	84.5		40 - 110					10/19/16 15:28	11/16/16 14:36	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	0.345	U	0.327	0.329	5.00	0.469	pCi/L		11/17/16 12:20	1

Client Sample Results

Client: Southern Company
Project/Site: CCR Plant Scherer

TestAmerica Job ID: 400-128760-2
SDG: Ash Pond

Client Sample ID: SGWA-5

Lab Sample ID: 400-128760-5

Date Collected: 10/14/16 15:28

Matrix: Water

Date Received: 10/15/16 09:13

Method: 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.0889	U	0.148	0.149	1.00	0.256	pCi/L	10/19/16 13:08	11/16/16 22:21	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	84.6		40 - 110					10/19/16 13:08	11/16/16 22:21	1

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.910		0.319	0.330	1.00	0.436	pCi/L	10/19/16 15:28	11/16/16 14:36	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	84.6		40 - 110					10/19/16 15:28	11/16/16 14:36	1
Y Carrier	87.1		40 - 110					10/19/16 15:28	11/16/16 14:36	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	0.999		0.352	0.362	5.00	0.436	pCi/L		11/17/16 12:20	1

Client Sample Results

Client: Southern Company
Project/Site: CCR Plant Scherer

TestAmerica Job ID: 400-128760-2
SDG: Ash Pond

Client Sample ID: SGWA-25

Date Collected: 10/14/16 15:48

Date Received: 10/15/16 09:13

Lab Sample ID: 400-128760-6

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	0.0323	U	0.184	0.184	1.00	0.338	pCi/L	10/19/16 13:08	11/16/16 22:21	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	71.5		40 - 110					10/19/16 13:08	11/16/16 22:21	1

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.415	U	0.369	0.371	1.00	0.594	pCi/L	10/19/16 15:28	11/16/16 14:36	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	71.5		40 - 110					10/19/16 15:28	11/16/16 14:36	1
Y Carrier	82.6		40 - 110					10/19/16 15:28	11/16/16 14:36	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	0.448	U	0.412	0.414	5.00	0.594	pCi/L		11/17/16 12:20	1

Client Sample Results

Client: Southern Company
Project/Site: CCR Plant Scherer

TestAmerica Job ID: 400-128760-2
SDG: Ash Pond

Client Sample ID: FD-1 (AP)

Date Collected: 10/13/16 00:00

Date Received: 10/15/16 09:13

Lab Sample ID: 400-128760-7

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	-0.0400	U	0.125	0.125	1.00	0.253	pCi/L	10/19/16 13:08	11/17/16 05:59	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	79.8		40 - 110					10/19/16 13:08	11/17/16 05:59	1

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.519		0.292	0.296	1.00	0.441	pCi/L	10/19/16 15:28	11/16/16 14:36	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	79.8		40 - 110					10/19/16 15:28	11/16/16 14:36	1
Y Carrier	92.7		40 - 110					10/19/16 15:28	11/16/16 14:36	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	0.479		0.318	0.321	5.00	0.441	pCi/L		11/17/16 12:20	1

Definitions/Glossary

Client: Southern Company
Project/Site: CCR Plant Scherer

TestAmerica Job ID: 400-128760-2
SDG: Ash Pond

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
CNF	Contains no Free Liquid
DER	Duplicate error ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision level concentration
MDA	Minimum detectable activity
EDL	Estimated Detection Limit
MDC	Minimum detectable concentration
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
NC	Not Calculated
ND	Not detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RER	Relative error ratio
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)

Lab Chronicle

Client: Southern Company
Project/Site: CCR Plant Scherer

TestAmerica Job ID: 400-128760-2
SDG: Ash Pond

Client Sample ID: SGWA-24

Date Collected: 10/13/16 15:26

Date Received: 10/14/16 08:56

Lab Sample ID: 400-128760-1

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			275138	10/19/16 10:32	ASB	TAL SL
Total/NA	Analysis	9315		1	279365	11/15/16 07:21	RTM	TAL SL
Total/NA	Prep	PrecSep_0			275155	10/19/16 11:44	ASB	TAL SL
Total/NA	Analysis	9320		1	279153	11/14/16 16:11	RTM	TAL SL
Total/NA	Analysis	Ra226_Ra228		1	279787	11/17/16 12:20	RTM	TAL SL

Client Sample ID: SGWA-1

Date Collected: 10/13/16 17:17

Date Received: 10/15/16 09:13

Lab Sample ID: 400-128760-2

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			275159	10/19/16 13:08	AS	TAL SL
Total/NA	Analysis	9315		1	279596	11/16/16 22:20	RTM	TAL SL
Total/NA	Prep	PrecSep_0			275189	10/19/16 15:28	AS	TAL SL
Total/NA	Analysis	9320		1	279596	11/16/16 14:33	RTM	TAL SL
Total/NA	Analysis	Ra226_Ra228		1	279787	11/17/16 12:20	RTM	TAL SL

Client Sample ID: SGWA-2

Date Collected: 10/14/16 10:30

Date Received: 10/15/16 09:13

Lab Sample ID: 400-128760-3

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			275159	10/19/16 13:08	AS	TAL SL
Total/NA	Analysis	9315		1	279596	11/16/16 22:21	RTM	TAL SL
Total/NA	Prep	PrecSep_0			275189	10/19/16 15:28	AS	TAL SL
Total/NA	Analysis	9320		1	279458	11/16/16 14:35	KLS	TAL SL
Total/NA	Analysis	Ra226_Ra228		1	279787	11/17/16 12:20	RTM	TAL SL

Client Sample ID: SGWA-3

Date Collected: 10/14/16 13:26

Date Received: 10/15/16 09:13

Lab Sample ID: 400-128760-4

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			275159	10/19/16 13:08	AS	TAL SL
Total/NA	Analysis	9315		1	279596	11/16/16 22:21	RTM	TAL SL
Total/NA	Prep	PrecSep_0			275189	10/19/16 15:28	AS	TAL SL
Total/NA	Analysis	9320		1	279458	11/16/16 14:36	KLS	TAL SL
Total/NA	Analysis	Ra226_Ra228		1	279787	11/17/16 12:20	RTM	TAL SL

Lab Chronicle

Client: Southern Company
Project/Site: CCR Plant Scherer

TestAmerica Job ID: 400-128760-2
SDG: Ash Pond

Client Sample ID: SGWA-5

Date Collected: 10/14/16 15:28

Date Received: 10/15/16 09:13

Lab Sample ID: 400-128760-5

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			275159	10/19/16 13:08	AS	TAL SL
Total/NA	Analysis	9315		1	279596	11/16/16 22:21	RTM	TAL SL
Total/NA	Prep	PrecSep_0			275189	10/19/16 15:28	AS	TAL SL
Total/NA	Analysis	9320		1	279458	11/16/16 14:36	KLS	TAL SL
Total/NA	Analysis	Ra226_Ra228		1	279787	11/17/16 12:20	RTM	TAL SL

Client Sample ID: SGWA-25

Date Collected: 10/14/16 15:48

Date Received: 10/15/16 09:13

Lab Sample ID: 400-128760-6

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			275159	10/19/16 13:08	AS	TAL SL
Total/NA	Analysis	9315		1	279596	11/16/16 22:21	RTM	TAL SL
Total/NA	Prep	PrecSep_0			275189	10/19/16 15:28	AS	TAL SL
Total/NA	Analysis	9320		1	279458	11/16/16 14:36	KLS	TAL SL
Total/NA	Analysis	Ra226_Ra228		1	279787	11/17/16 12:20	RTM	TAL SL

Client Sample ID: FD-1 (AP)

Date Collected: 10/13/16 00:00

Date Received: 10/15/16 09:13

Lab Sample ID: 400-128760-7

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			275159	10/19/16 13:08	AS	TAL SL
Total/NA	Analysis	9315		1	279770	11/17/16 05:59	RTM	TAL SL
Total/NA	Prep	PrecSep_0			275189	10/19/16 15:28	AS	TAL SL
Total/NA	Analysis	9320		1	279458	11/16/16 14:36	KLS	TAL SL
Total/NA	Analysis	Ra226_Ra228		1	279787	11/17/16 12:20	RTM	TAL SL

Laboratory References:

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

QC Association Summary

Client: Southern Company
 Project/Site: CCR Plant Scherer

TestAmerica Job ID: 400-128760-2
 SDG: Ash Pond

Rad

Prep Batch: 275138

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-128760-1	SGWA-24	Total/NA	Water	PrecSep-21	
MB 160-275138/1-A	Method Blank	Total/NA	Water	PrecSep-21	
LCS 160-275138/2-A	Lab Control Sample	Total/NA	Water	PrecSep-21	
LCS 160-275138/3-A	Lab Control Sample Dup	Total/NA	Water	PrecSep-21	

Prep Batch: 275155

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-128760-1	SGWA-24	Total/NA	Water	PrecSep_0	
MB 160-275155/1-A	Method Blank	Total/NA	Water	PrecSep_0	
LCS 160-275155/2-A	Lab Control Sample	Total/NA	Water	PrecSep_0	
LCS 160-275155/3-A	Lab Control Sample Dup	Total/NA	Water	PrecSep_0	

Prep Batch: 275159

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-128760-2	SGWA-1	Total/NA	Water	PrecSep-21	
400-128760-3	SGWA-2	Total/NA	Water	PrecSep-21	
400-128760-4	SGWA-3	Total/NA	Water	PrecSep-21	
400-128760-5	SGWA-5	Total/NA	Water	PrecSep-21	
400-128760-6	SGWA-25	Total/NA	Water	PrecSep-21	
400-128760-7	FD-1 (AP)	Total/NA	Water	PrecSep-21	
MB 160-275159/1-A	Method Blank	Total/NA	Water	PrecSep-21	
LCS 160-275159/2-A	Lab Control Sample	Total/NA	Water	PrecSep-21	
600-138140-B-15-A MSD	Matrix Spike Duplicate	Total/NA	Water	PrecSep-21	
600-138140-C-15-E MS	Matrix Spike	Total/NA	Water	PrecSep-21	

Prep Batch: 275189

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-128760-2	SGWA-1	Total/NA	Water	PrecSep_0	
400-128760-3	SGWA-2	Total/NA	Water	PrecSep_0	
400-128760-4	SGWA-3	Total/NA	Water	PrecSep_0	
400-128760-5	SGWA-5	Total/NA	Water	PrecSep_0	
400-128760-6	SGWA-25	Total/NA	Water	PrecSep_0	
400-128760-7	FD-1 (AP)	Total/NA	Water	PrecSep_0	
MB 160-275189/1-A	Method Blank	Total/NA	Water	PrecSep_0	
LCS 160-275189/2-A	Lab Control Sample	Total/NA	Water	PrecSep_0	
600-138140-B-15-C MSD	Matrix Spike Duplicate	Total/NA	Water	PrecSep_0	
600-138140-C-15-G MS	Matrix Spike	Total/NA	Water	PrecSep_0	

QC Sample Results

Client: Southern Company
Project/Site: CCR Plant Scherer

TestAmerica Job ID: 400-128760-2
SDG: Ash Pond

Method: 9315 - Radium-226 (GFPC)

Lab Sample ID: MB 160-275138/1-A
Matrix: Water
Analysis Batch: 279365

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 275138

Analyte	MB Result	MB Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.2612		0.158	0.160	1.00	0.220	pCi/L	10/19/16 10:32	11/15/16 07:20	1
Carrier	MB %Yield	MB Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	79.5		40 - 110					10/19/16 10:32	11/15/16 07:20	1

Lab Sample ID: LCS 160-275138/2-A
Matrix: Water
Analysis Batch: 279365

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 275138

Analyte	Spike Added	LCS Result	LCS Qual	Total Uncert. (2σ+/-)	RL	MDC	Unit	%Rec	%Rec. Limits
Radium-226	11.1	13.76		1.50	1.00	0.282	pCi/L	124	68 - 137
Carrier	LCS %Yield	LCS Qualifier	Limits						
Ba Carrier	71.8		40 - 110						

Lab Sample ID: LCSD 160-275138/3-A
Matrix: Water
Analysis Batch: 279365

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 275138

Analyte	Spike Added	LCSD Result	LCSD Qual	Total Uncert. (2σ+/-)	RL	MDC	Unit	%Rec	%Rec. Limits	RER	RER Limit
Radium-226	11.1	13.16		1.43	1.00	0.285	pCi/L	119	68 - 137	0.20	1
Carrier	LCSD %Yield	LCSD Qualifier	Limits								
Ba Carrier	74.1		40 - 110								

Lab Sample ID: MB 160-275159/1-A
Matrix: Water
Analysis Batch: 279596

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 275159

Analyte	MB Result	MB Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	-0.03641	U	0.141	0.141	1.00	0.282	pCi/L	10/19/16 13:08	11/16/16 22:19	1
Carrier	MB %Yield	MB Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	89.7		40 - 110					10/19/16 13:08	11/16/16 22:19	1

Lab Sample ID: LCS 160-275159/2-A
Matrix: Water
Analysis Batch: 279596

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 275159

Analyte	Spike Added	LCS Result	LCS Qual	Total Uncert. (2σ+/-)	RL	MDC	Unit	%Rec	%Rec. Limits
Radium-226	11.1	14.47		1.58	1.00	0.276	pCi/L	130	68 - 137

TestAmerica Pensacola

QC Sample Results

Client: Southern Company
Project/Site: CCR Plant Scherer

TestAmerica Job ID: 400-128760-2
SDG: Ash Pond

Method: 9315 - Radium-226 (GFPC) (Continued)

Lab Sample ID: LCS 160-275159/2-A
Matrix: Water
Analysis Batch: 279596

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 275159

	LCS	LCS	
Carrier	%Yield	Qualifier	Limits
Ba Carrier	84.0		40 - 110

Lab Sample ID: 600-138140-B-15-A MSD
Matrix: Water
Analysis Batch: 279766

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA
Prep Batch: 275159

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	0.315		11.1	12.88		1.39	1.00	0.264	pCi/L	113	75 - 138	0.31	1

	MSD	MSD	
Carrier	%Yield	Qualifier	Limits
Ba Carrier	94.3		40 - 110

Lab Sample ID: 600-138140-C-15-E MS
Matrix: Water
Analysis Batch: 279766

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 275159

Analyte	Sample Result	Sample Qual	Spike Added	MS Result	MS Qual	Total Uncert. (2σ+/-)	RL	MDC	Unit	%Rec	%Rec. Limits
Radium-226	0.315		11.1	13.78		1.48	1.00	0.268	pCi/L	121	75 - 138

	MS	MS	
Carrier	%Yield	Qualifier	Limits
Ba Carrier	84.0		40 - 110

Method: 9320 - Radium-228 (GFPC)

Lab Sample ID: MB 160-275155/1-A
Matrix: Water
Analysis Batch: 279153

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 275155

Analyte	MB Result	MB Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.4562		0.293	0.296	1.00	0.451	pCi/L	10/19/16 11:44	11/14/16 16:10	1

	MB	MB	Limits	Prepared	Analyzed	Dil Fac
Carrier	%Yield	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Ba Carrier	79.5		40 - 110	10/19/16 11:44	11/14/16 16:10	1
Y Carrier	84.1		40 - 110	10/19/16 11:44	11/14/16 16:10	1

Lab Sample ID: LCS 160-275155/2-A
Matrix: Water
Analysis Batch: 279153

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 275155

Analyte	Spike Added	LCS Result	LCS Qual	Total Uncert. (2σ+/-)	RL	MDC	Unit	%Rec	%Rec. Limits
Radium-228	14.3	14.82		1.65	1.00	0.468	pCi/L	104	56 - 140

TestAmerica Pensacola

QC Sample Results

Client: Southern Company
Project/Site: CCR Plant Scherer

TestAmerica Job ID: 400-128760-2
SDG: Ash Pond

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

Lab Sample ID: LCS 160-275155/2-A
Matrix: Water
Analysis Batch: 279153

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 275155

Carrier	LCS %Yield	LCS Qualifier	Limits
Ba Carrier	71.8		40 - 110
Y Carrier	87.1		40 - 110

Lab Sample ID: LCSD 160-275155/3-A
Matrix: Water
Analysis Batch: 279153

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 275155

Analyte	Spike Added	LCSD Result	LCSD Qual	Total Uncert. (2σ+/-)	RL	MDC	Unit	%Rec	%Rec. Limits	RER	RER Limit
Radium-228	14.3	15.35		1.69	1.00	0.446	pCi/L	108	56 - 140	0.16	1

Carrier	LCSD %Yield	LCSD Qualifier	Limits
Ba Carrier	74.1		40 - 110
Y Carrier	87.5		40 - 110

Lab Sample ID: MB 160-275189/1-A
Matrix: Water
Analysis Batch: 279596

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 275189

Analyte	MB Result	MB Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.2712	U	0.236	0.237	1.00	0.376	pCi/L	10/19/16 15:28	11/16/16 14:33	1

Carrier	MB %Yield	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
Ba Carrier	89.7		40 - 110	10/19/16 15:28	11/16/16 14:33	1
Y Carrier	82.2		40 - 110	10/19/16 15:28	11/16/16 14:33	1

Lab Sample ID: LCS 160-275189/2-A
Matrix: Water
Analysis Batch: 279596

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 275189

Analyte	Spike Added	LCS Result	LCS Qual	Total Uncert. (2σ+/-)	RL	MDC	Unit	%Rec	%Rec. Limits
Radium-228	14.3	16.12		1.73	1.00	0.394	pCi/L	113	56 - 140

Carrier	LCS %Yield	LCS Qualifier	Limits
Ba Carrier	84.0		40 - 110
Y Carrier	87.5		40 - 110

Lab Sample ID: 600-138140-B-15-C MSD
Matrix: Water
Analysis Batch: 279458

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA
Prep Batch: 275189

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	0.505		14.3	14.58		1.57	1.00	0.340	pCi/L	99	45 - 150	0.94	1

TestAmerica Pensacola

QC Sample Results

Client: Southern Company
 Project/Site: CCR Plant Scherer

TestAmerica Job ID: 400-128760-2
 SDG: Ash Pond

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

Lab Sample ID: 600-138140-B-15-C MSD
Matrix: Water
Analysis Batch: 279458

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA
Prep Batch: 275189

<i>Carrier</i>	<i>MSD MSD</i>		<i>Limits</i>
	<i>%Yield</i>	<i>Qualifier</i>	
<i>Ba Carrier</i>	94.3		40 - 110
<i>Y Carrier</i>	87.9		40 - 110

Lab Sample ID: 600-138140-C-15-G MS
Matrix: Water
Analysis Batch: 279458

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 275189

<i>Analyte</i>	<i>Sample Result</i>	<i>Sample Qual</i>	<i>Spike Added</i>	<i>MS Result</i>	<i>MS Qual</i>	<i>Total Uncert. (2σ+/-)</i>	<i>RL</i>	<i>MDC</i>	<i>Unit</i>	<i>%Rec</i>	<i>%Rec. Limits</i>
Radium-228	0.505		14.3	17.85		1.90	1.00	0.431	pCi/L	122	45 - 150

<i>Carrier</i>	<i>MS MS</i>		<i>Limits</i>
	<i>%Yield</i>	<i>Qualifier</i>	
<i>Ba Carrier</i>	84.0		40 - 110
<i>Y Carrier</i>	87.1		40 - 110

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TestAmerica Pensacola
 3355 McLeMores Drive
 Pensacola, FL 32514
 Phone (850) 474-1001 Fax (850) 478-2671

Chain of Custody Record

TestAmerica
 THE LEADER IN ENVIRONMENTAL TESTING


Client Information Client Contact: Joju Abraham Company: Southern Company Address: 241 Ralph McGill Blvd SE B10185 City: Atlanta State, Zip: GA, 30308 Phone: PO #: GPC:10624814 WO #: Email: JAbraham@southernco.com Project Name: CCR - Scherer Site: Ash Pond		Lab PVI: Whitmire, Cheyenne R E-Mail: cheyenne.whitmire@testamericainc.com		Carrier Tracking No(s): 400-57303-24790.8 Page: Page 8 of 8 Job #: 912-258-7457	
Due Date Requested: TAT Requested (days): PO #: GPC:10624814 WO #: Project #: 40007041 SSOV#:		Analysis Requested			
Sample Identification Sample Date: 10/13/16 Sample Time: 1528 Sample Type (C=comp, G=grab): G Matrix (Water, Solid, Other): Water Preservation Code: N		Field Filtered Sample (Yes or No): N Perform MS/MSD (Yes or No): N 2640C-TDS, 300_ORGM, 28D-Chloride, Fluoride, Sulfate 6020-Sb, As, Ba, B, Be, Cd, Cr, Co, Pb, Li, Mn, Se, Tl, 7470A-Hg 9315_Ra226, 9320_Ra228, Ra228Ra228_GFP			
SGWA--24 Sample Date: 10/13/16 Sample Time: 1528 Sample Type (C=comp, G=grab): G Matrix (Water, Solid, Other): Water Preservation Code: N		Total Number of Containers: 3 Special Instructions/Note:			
Possible Hazard Identification <input checked="" type="checkbox"/> Non-Hazard <input type="checkbox"/> Flammable <input type="checkbox"/> Skin Irritant <input type="checkbox"/> Poison B <input type="checkbox"/> Unknown <input type="checkbox"/> Radiological Deliverable Requested: I, II, III, IV, Other (specify)					
Sample Disposal (A fee may be assessed if samples are retained longer than 1 month) <input type="checkbox"/> Return To Client <input checked="" type="checkbox"/> Disposal By Lab <input type="checkbox"/> Archive For _____ Months Special Instructions/QC Requirements:					
Empty Kit Relinquished by: Relinquished by: <i>Ben Hodges</i> Relinquished by: Relinquished by:		Date/Time: 10/13/16 1700 Date/Time: Date/Time:			
Relinquished by: Relinquished by:		Date/Time: 10/14/16 0855 Date/Time: Date/Time:			
Relinquished by: Relinquished by:		Date/Time: Date/Time:			
Custody Seals Intact: A Yes Δ No		Cooler Temperature(s) °C and Other Remarks: 7.3°C 12-5			

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TestAmerica Pensacola
 3355 McLeMores Drive
 Pensacola, FL 32514
 Phone (850) 474-1001 Fax (850) 478-2671

Chain of Custody Record

TestAmerica
 THE LEADER IN ENVIRONMENTAL TESTING

Client Information Client Contact: Joju Abraham Company: Southern Company Address: 241 Ralph McGill Blvd SE B10185 City: Atlanta State, Zip: GA, 30308 PO #: GPC-10624814 Email: JAbraham@southernco.com Project Name: CCR - Scherer Site: Ash Pond		Lab P/M: Whitmire, Cheyenne R E-Mail: cheyenne.whitmire@testamericainc.com		Carrier Tracking No(s): 400-57303-24790.8 Page: Page 1 of 1 Job #:	
Due Date Requested: TAT Requested (days): PO #: WO #: Project #: SSO/W#:		Analysis Requested 2540C-TDS, 300_ORGM, 28D-Chloride, Fluoride, Sulfate 6020-Sb, As, Ba, B, Be, Ca, Cd, Cr, Co, Pb, Li, Mo, Se, Tl, Zn, Hg 9315_Ra226, 9320_Ra228, Ra228Ra228_GFPc 400-128760 COC 			
Sample Identification Sample Date Sample Time Sample Type (C=Comp, G=grab) Matrix (w=water, s=solid, o=organic, t=tissue, a=air) Preservation Code: Field Filtered Sample (Yes or No) Perform MS/MSD (Yes or No)		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 - Na2CO3 Q - Na2SO3 R - Na2S2O3 S - H2SO4 T - TSP Dodecalhydrate U - Acetone V - MCAA W - ph 4-5 Z - other (specify) Other:			
Sample ID Sample Date Sample Time Sample Type Matrix Preservation Code Field Filtered Sample Perform MS/MSD		Total Number of Containers Special Instructions/Note:			
SGWA-1 SGWA-2 SGWA-3 SGWA-5 SGWA-25 FD-1 (AP)		3 3 3 3 3 3			
Possible Hazard Identification <input checked="" type="checkbox"/> Non-Hazard <input type="checkbox"/> Flammable <input type="checkbox"/> Skin Irritant <input type="checkbox"/> Poison B <input type="checkbox"/> Unknown <input type="checkbox"/> Radiological		Sample Disposal (A fee may be assessed if samples are retained longer than 1 month) <input type="checkbox"/> Return To Client <input checked="" type="checkbox"/> Disposal By Lab <input type="checkbox"/> Archive For _____ Months			
Deliverable Requested: I, II, III, IV, Other (specify)		Special Instructions/QC Requirements:			
Empty Kit Relinquished by:		Method of Shipment:			
Relinquished by: [Signature] Date/Time: 10/14/16 1830 Company: Golden		Received by: [Signature] Date/Time: 10/15/16 0913 Company: [Signature]			
Relinquished by: [Signature] Date/Time: Company:		Received by: Date/Time: Company:			
Relinquished by: Date/Time: Company:		Received by: Date/Time: Company:			
Custody Seals Intact: <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No Custody Seal No.: 898679, 898678, 898675		Cooler Temperature(s) °C and Other Remarks: 0.8°C IR			

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Login Sample Receipt Checklist

Client: Southern Company

Job Number: 400-128760-2

SDG Number: Ash Pond

Login Number: 128760

List Number: 1

Creator: Siddoway, Benjamin

List Source: TestAmerica Pensacola

Question	Answer	Comment
Radioactivity wasn't checked or is \leq background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	True	898675, 898678, 898679
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, 0.8°C IR-5
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 <math><6\text{mm}</math> (1/4").	N/A	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	



Certification Summary

Client: Southern Company
Project/Site: CCR Plant Scherer

TestAmerica Job ID: 400-128760-2
SDG: Ash Pond

Laboratory: TestAmerica Pensacola

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

Authority	Program	EPA Region	Certification ID	Expiration Date
Alabama	State Program	4	40150	06-30-17
Arizona	State Program	9	AZ0710	01-11-17
Arkansas DEQ	State Program	6	88-0689	09-01-17
California	ELAP	9	2510	03-31-18
Florida	NELAP	4	E81010	06-30-17
Georgia	State Program	4	N/A	06-30-17
Illinois	NELAP	5	200041	10-09-17
Iowa	State Program	7	367	08-01-18
Kansas	NELAP	7	E-10253	10-31-17
Kentucky (UST)	State Program	4	53	06-30-17
Kentucky (WW)	State Program	4	98030	12-31-16
Louisiana	NELAP	6	30976	06-30-17
Louisiana (DW)	NELAP Secondary AB	6	LA170005	12-31-17
Maryland	State Program	3	233	09-30-17
Massachusetts	State Program	1	M-FL094	06-30-17
Michigan	State Program	5	9912	05-06-17
New Jersey	NELAP	2	FL006	06-30-17
North Carolina (WW/SW)	State Program	4	314	12-31-16
Oklahoma	State Program	6	9810	08-31-17
Pennsylvania	NELAP	3	68-00467	01-31-17
Rhode Island	State Program	1	LAO00307	12-30-16
South Carolina	State Program	4	96026	06-30-17
Tennessee	State Program	4	TN02907	06-30-17
Texas	NELAP	6	T104704286-16-10	09-30-17
USDA	Federal		P330-16-00172	05-24-19
Virginia	NELAP	3	460166	06-14-17
Washington	State Program	10	C915	05-15-17
West Virginia DEP	State Program	3	136	06-30-17

Laboratory: TestAmerica St. Louis

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

Authority	Program	EPA Region	Certification ID	Expiration Date
Alaska	State Program	10	MO00054	06-30-17
California	State Program	9	2886	03-31-18
Connecticut	State Program	1	PH-0241	03-31-17
Florida	NELAP	4	E87689	06-30-17
Illinois	NELAP	5	003757	11-30-16 *
Iowa	State Program	7	373	12-01-16 *
Kansas	NELAP	7	E-10236	10-31-17
Kentucky (DW)	State Program	4	90125	12-31-16
L-A-B	DoD ELAP		L2305	04-06-19
Louisiana	NELAP	6	04080	06-30-17
Louisiana (DW)	NELAP	6	LA160008	12-31-16 *
Maryland	State Program	3	310	09-30-17
Missouri	State Program	7	780	06-30-17
Nevada	State Program	9	MO000542016-1	07-31-17
New Jersey	NELAP	2	MO002	06-30-17
New York	NELAP	2	11616	03-31-17
North Dakota	State Program	8	R207	06-30-17

* Certification renewal pending - certification considered valid.

Certification Summary

Client: Southern Company
Project/Site: CCR Plant Scherer

TestAmerica Job ID: 400-128760-2
SDG: Ash Pond

Laboratory: TestAmerica St. Louis (Continued)

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

Authority	Program	EPA Region	Certification ID	Expiration Date
NRC	NRC		24-24817-01	12-31-22
Oklahoma	State Program	6	9997	08-31-17
Pennsylvania	NELAP	3	68-00540	02-28-17 *
South Carolina	State Program	4	85002001	06-30-17
Texas	NELAP	6	T104704193-16-10	07-31-17
US Fish & Wildlife	Federal		LE058448-0	10-31-17
USDA	Federal		P330-14-0016	01-09-17
Utah	NELAP	8	MO000542016-8	07-31-17
Virginia	NELAP	3	460230	06-14-17
Washington	State Program	10	C592	08-30-17
West Virginia DEP	State Program	3	381	08-31-17

* Certification renewal pending - certification considered valid.

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

TestAmerica Laboratories, Inc.

TestAmerica Pensacola

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Pensacola, FL 32514

Tel: (850)474-1001

TestAmerica Job ID: 400-128811-1

TestAmerica Sample Delivery Group: Ash Pond

Client Project/Site: CCR Plant Scherer

For:

Southern Company

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B10185

Atlanta, Georgia 30308

Attn: Joju Abraham



Authorized for release by:

11/14/2016 9:05:04 AM

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

1

2

3

4

5

6

7

8

9

10

11

12

13

14



Table of Contents

Cover Page	1
Table of Contents	2
Case Narrative	3
Detection Summary	4
Method Summary	7
Sample Summary	8
Client Sample Results	9
Definitions	19
Chronicle	20
QC Association	23
QC Sample Results	26
Chain of Custody	34
Receipt Checklists	35
Certification Summary	36

Case Narrative

Client: Southern Company
Project/Site: CCR Plant Scherer

TestAmerica Job ID: 400-128811-1
SDG: Ash Pond

Job ID: 400-128811-1

Laboratory: TestAmerica Pensacola

Narrative

Job Narrative 400-128811-1

HPLC/IC

Method(s) 300.0: The following samples were diluted to bring the concentration of target analytes within the calibration range: SGWC-8 (400-128811-4), SGWC-13 (400-128811-6) and SGWC-14 (400-128811-9). Elevated reporting limits (RLs) are provided.

Metals

Method(s) 6020: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 327627 and analytical batch 328746 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.

Method(s) 6020: The serial dilution performed for the following sample associated with batch 328746 was outside control limits for Barium: (400-128811-B-1-B SD). The post-digestion spike (PDS) recovery for this analyte met acceptance criteria (corrective action).

Method(s) 6020: Internal standards in (CCB 400-328746/29) were biased high. The associated compounds were non-detect, therefore data is reported.

Method(s) 6020: The following sample was diluted due to matrix because it interferes with internal standards: SGWC-13 (400-128811-6). Elevated reporting limits (RLs) are provided.

Method(s) 6020: The continuing calibration verification (CCV) associated with batch 330135 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. The following sample is impacted: SGWC-13 (400-128811-6).

Method(s) 6020: The internal standard associated with Cobalt marginally failed biased high. Multiple confirming runs point to matrix interference. A dilution would increase the reporting limit, and as this is a marginal failure the results are reported. (CCV 400-330135/30)

Method(s) 7470A: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for prep batch 327535 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: Southern Company
Project/Site: CCR Plant Scherer

TestAmerica Job ID: 400-128811-1
SDG: Ash Pond

Client Sample ID: SGWC-12

Lab Sample ID: 400-128811-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chloride	8.3		1.0	0.89	mg/L	1		300.0	Total/NA
Fluoride	0.082	J	0.20	0.082	mg/L	1		300.0	Total/NA
Sulfate	23		1.0	0.70	mg/L	1		300.0	Total/NA
Barium	0.032		0.0025	0.00049	mg/L	5		6020	Total Recoverable
Calcium	21		0.25	0.13	mg/L	5		6020	Total Recoverable
Chromium	0.0023	J	0.0025	0.0011	mg/L	5		6020	Total Recoverable
Cobalt	0.0030		0.0025	0.00040	mg/L	5		6020	Total Recoverable
Total Dissolved Solids	160		5.0	3.4	mg/L	1		SM 2540C	Total/NA

Client Sample ID: SGWA-4

Lab Sample ID: 400-128811-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chloride	1.2		1.0	0.89	mg/L	1		300.0	Total/NA
Sulfate	1.4		1.0	0.70	mg/L	1		300.0	Total/NA
Barium	0.049		0.0025	0.00049	mg/L	5		6020	Total Recoverable
Calcium	16		0.25	0.13	mg/L	5		6020	Total Recoverable
Chromium	0.0032		0.0025	0.0011	mg/L	5		6020	Total Recoverable
Molybdenum	0.0014	J	0.015	0.00085	mg/L	5		6020	Total Recoverable
Total Dissolved Solids	58		5.0	3.4	mg/L	1		SM 2540C	Total/NA

Client Sample ID: FB-1 (AP)

Lab Sample ID: 400-128811-3

No Detections.

Client Sample ID: SGWC-8

Lab Sample ID: 400-128811-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chloride	12		1.0	0.89	mg/L	1		300.0	Total/NA
Fluoride	0.51		0.20	0.082	mg/L	1		300.0	Total/NA
Sulfate	64		5.0	3.5	mg/L	5		300.0	Total/NA
Barium	0.17		0.0025	0.00049	mg/L	5		6020	Total Recoverable
Boron	0.059		0.050	0.021	mg/L	5		6020	Total Recoverable
Calcium	47		0.25	0.13	mg/L	5		6020	Total Recoverable
Total Dissolved Solids	370		5.0	3.4	mg/L	1		SM 2540C	Total/NA

Client Sample ID: EB-1 (AP)

Lab Sample ID: 400-128811-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Mercury	0.000072	J	0.00020	0.000070	mg/L	1		7470A	Total/NA

Client Sample ID: SGWC-13

Lab Sample ID: 400-128811-6

This Detection Summary does not include radiochemical test results.

TestAmerica Pensacola

Detection Summary

Client: Southern Company
Project/Site: CCR Plant Scherer

TestAmerica Job ID: 400-128811-1
SDG: Ash Pond

Client Sample ID: SGWC-13 (Continued)

Lab Sample ID: 400-128811-6

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chloride	5.4		1.0	0.89	mg/L	1		300.0	Total/NA
Sulfate	73		5.0	3.5	mg/L	5		300.0	Total/NA
Barium - RA	0.024		0.0025	0.00049	mg/L	5		6020	Total Recoverable
Boron - RA	0.58		0.050	0.021	mg/L	5		6020	Total Recoverable
Calcium - RA	15		0.25	0.13	mg/L	5		6020	Total Recoverable
Cobalt - RA	0.010		0.0025	0.00040	mg/L	5		6020	Total Recoverable
Selenium - RA	0.00030	J	0.0013	0.00024	mg/L	5		6020	Total Recoverable
Total Dissolved Solids	140		5.0	3.4	mg/L	1		SM 2540C	Total/NA

Client Sample ID: SGWC-11

Lab Sample ID: 400-128811-7

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chloride	7.9		1.0	0.89	mg/L	1		300.0	Total/NA
Sulfate	2.1		1.0	0.70	mg/L	1		300.0	Total/NA
Arsenic	0.0011	J	0.0013	0.00046	mg/L	5		6020	Total Recoverable
Barium	0.035		0.0025	0.00049	mg/L	5		6020	Total Recoverable
Boron	0.25		0.050	0.021	mg/L	5		6020	Total Recoverable
Calcium	2.0		0.25	0.13	mg/L	5		6020	Total Recoverable
Cobalt	0.032		0.0025	0.00040	mg/L	5		6020	Total Recoverable
Total Dissolved Solids	24		5.0	3.4	mg/L	1		SM 2540C	Total/NA

Client Sample ID: SGWC-6

Lab Sample ID: 400-128811-8

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chloride	2.3		1.0	0.89	mg/L	1		300.0	Total/NA
Fluoride	0.11	J	0.20	0.082	mg/L	1		300.0	Total/NA
Barium	0.11		0.0025	0.00049	mg/L	5		6020	Total Recoverable
Calcium	8.6		0.25	0.13	mg/L	5		6020	Total Recoverable
Cobalt	0.0016	J	0.0025	0.00040	mg/L	5		6020	Total Recoverable
Total Dissolved Solids	60		5.0	3.4	mg/L	1		SM 2540C	Total/NA

Client Sample ID: SGWC-14

Lab Sample ID: 400-128811-9

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chloride	11		1.0	0.89	mg/L	1		300.0	Total/NA
Sulfate	190		5.0	3.5	mg/L	5		300.0	Total/NA
Barium	0.060		0.0025	0.00049	mg/L	5		6020	Total Recoverable
Boron	1.6		0.050	0.021	mg/L	5		6020	Total Recoverable

This Detection Summary does not include radiochemical test results.

TestAmerica Pensacola

Detection Summary

Client: Southern Company
Project/Site: CCR Plant Scherer

TestAmerica Job ID: 400-128811-1
SDG: Ash Pond

Client Sample ID: SGWC-14 (Continued)

Lab Sample ID: 400-128811-9

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Calcium	37		0.25	0.13	mg/L	5		6020	Total
Chromium	0.0012	J	0.0025	0.0011	mg/L	5		6020	Recoverable Total
Cobalt	0.017		0.0025	0.00040	mg/L	5		6020	Recoverable Total
Mercury	0.000089	J	0.00020	0.000070	mg/L	1		7470A	Total/NA
Total Dissolved Solids	320		5.0	3.4	mg/L	1		SM 2540C	Total/NA

Client Sample ID: SGWC-10

Lab Sample ID: 400-128811-10

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chloride	8.9		1.0	0.89	mg/L	1		300.0	Total/NA
Sulfate	4.4		1.0	0.70	mg/L	1		300.0	Total/NA
Barium	0.027		0.0025	0.00049	mg/L	5		6020	Total
Boron	0.032	J	0.050	0.021	mg/L	5		6020	Recoverable Total
Calcium	4.2		0.25	0.13	mg/L	5		6020	Recoverable Total
Cobalt	0.050		0.0025	0.00040	mg/L	5		6020	Recoverable Total
Total Dissolved Solids	6.0		5.0	3.4	mg/L	1		SM 2540C	Total/NA

This Detection Summary does not include radiochemical test results.

TestAmerica Pensacola

Method Summary

Client: Southern Company
Project/Site: CCR Plant Scherer

TestAmerica Job ID: 400-128811-1
SDG: Ash Pond

Method	Method Description	Protocol	Laboratory
300.0	Anions, Ion Chromatography	MCAWW	TAL PEN
6020	Metals (ICP/MS)	SW846	TAL PEN
7470A	Mercury (CVAA)	SW846	TAL PEN
SM 2540C	Solids, Total Dissolved (TDS)	SM	TAL PEN

Protocol References:

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:

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

Sample Summary

Client: Southern Company
Project/Site: CCR Plant Scherer

TestAmerica Job ID: 400-128811-1
SDG: Ash Pond

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
400-128811-1	SGWC-12	Water	10/17/16 12:24	10/18/16 09:11
400-128811-2	SGWA-4	Water	10/17/16 12:33	10/18/16 09:11
400-128811-3	FB-1 (AP)	Water	10/17/16 12:45	10/18/16 09:11
400-128811-4	SGWC-8	Water	10/17/16 12:45	10/19/16 08:19
400-128811-5	EB-1 (AP)	Water	10/17/16 11:00	10/18/16 09:11
400-128811-6	SGWC-13	Water	10/17/16 14:20	10/18/16 09:11
400-128811-7	SGWC-11	Water	10/17/16 15:40	10/19/16 08:19
400-128811-8	SGWC-6	Water	10/17/16 15:46	10/18/16 09:11
400-128811-9	SGWC-14	Water	10/17/16 16:38	10/18/16 09:11
400-128811-10	SGWC-10	Water	10/17/16 14:10	10/19/16 08:19



Client Sample Results

Client: Southern Company
Project/Site: CCR Plant Scherer

TestAmerica Job ID: 400-128811-1
SDG: Ash Pond

Client Sample ID: SGWC-12

Lab Sample ID: 400-128811-1

Date Collected: 10/17/16 12:24

Matrix: Water

Date Received: 10/18/16 09:11

Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	8.3		1.0	0.89	mg/L			10/31/16 12:02	1
Fluoride	0.082	J	0.20	0.082	mg/L			10/31/16 12:02	1
Sulfate	23		1.0	0.70	mg/L			10/31/16 12:02	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0010		0.0025	0.0010	mg/L		10/24/16 13:00	10/28/16 21:34	5
Arsenic	<0.00046		0.0013	0.00046	mg/L		10/24/16 13:00	10/28/16 21:34	5
Barium	0.032		0.0025	0.00049	mg/L		10/24/16 13:00	10/28/16 21:34	5
Beryllium	<0.00034		0.0025	0.00034	mg/L		10/24/16 13:00	10/28/16 21:34	5
Boron	<0.021		0.050	0.021	mg/L		10/24/16 13:00	10/28/16 21:34	5
Cadmium	<0.00034		0.0025	0.00034	mg/L		10/24/16 13:00	10/28/16 21:34	5
Calcium	21		0.25	0.13	mg/L		10/24/16 13:00	10/28/16 21:34	5
Chromium	0.0023	J	0.0025	0.0011	mg/L		10/24/16 13:00	10/28/16 21:34	5
Cobalt	0.0030		0.0025	0.00040	mg/L		10/24/16 13:00	10/28/16 21:34	5
Lead	<0.00035	F1	0.0013	0.00035	mg/L		10/24/16 13:00	10/28/16 21:34	5
Lithium	<0.0032		0.0050	0.0032	mg/L		10/24/16 13:00	10/28/16 21:34	5
Molybdenum	<0.00085		0.015	0.00085	mg/L		10/24/16 13:00	10/28/16 21:34	5
Selenium	<0.00024		0.0013	0.00024	mg/L		10/24/16 13:00	10/28/16 21:34	5
Thallium	<0.000085		0.00050	0.000085	mg/L		10/24/16 13:00	10/28/16 21:34	5

Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.000070	F1	0.00020	0.000070	mg/L		10/21/16 09:23	10/24/16 13:56	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	160		5.0	3.4	mg/L			10/22/16 16:28	1

Client Sample Results

Client: Southern Company
Project/Site: CCR Plant Scherer

TestAmerica Job ID: 400-128811-1
SDG: Ash Pond

Client Sample ID: SGWA-4

Lab Sample ID: 400-128811-2

Date Collected: 10/17/16 12:33

Matrix: Water

Date Received: 10/18/16 09:11

Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	1.2		1.0	0.89	mg/L			10/31/16 13:10	1
Fluoride	<0.082		0.20	0.082	mg/L			10/31/16 13:10	1
Sulfate	1.4		1.0	0.70	mg/L			10/31/16 13:10	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0010		0.0025	0.0010	mg/L		10/24/16 13:00	10/28/16 22:19	5
Arsenic	<0.00046		0.0013	0.00046	mg/L		10/24/16 13:00	10/28/16 22:19	5
Barium	0.049		0.0025	0.00049	mg/L		10/24/16 13:00	10/28/16 22:19	5
Beryllium	<0.00034		0.0025	0.00034	mg/L		10/24/16 13:00	10/28/16 22:19	5
Boron	<0.021		0.050	0.021	mg/L		10/24/16 13:00	10/28/16 22:19	5
Cadmium	<0.00034		0.0025	0.00034	mg/L		10/24/16 13:00	10/28/16 22:19	5
Calcium	16		0.25	0.13	mg/L		10/24/16 13:00	10/28/16 22:19	5
Chromium	0.0032		0.0025	0.0011	mg/L		10/24/16 13:00	10/28/16 22:19	5
Cobalt	<0.00040		0.0025	0.00040	mg/L		10/24/16 13:00	10/28/16 22:19	5
Lead	<0.00035		0.0013	0.00035	mg/L		10/24/16 13:00	10/28/16 22:19	5
Lithium	<0.0032		0.0050	0.0032	mg/L		10/24/16 13:00	10/28/16 22:19	5
Molybdenum	0.0014 J		0.015	0.00085	mg/L		10/24/16 13:00	10/28/16 22:19	5
Selenium	<0.00024		0.0013	0.00024	mg/L		10/24/16 13:00	10/28/16 22:19	5
Thallium	<0.000085		0.00050	0.000085	mg/L		10/24/16 13:00	10/28/16 22:19	5

Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.000070		0.00020	0.000070	mg/L		10/19/16 09:43	10/21/16 13:29	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	58		5.0	3.4	mg/L			10/22/16 16:28	1

Client Sample Results

Client: Southern Company
Project/Site: CCR Plant Scherer

TestAmerica Job ID: 400-128811-1
SDG: Ash Pond

Client Sample ID: FB-1 (AP)

Date Collected: 10/17/16 12:45

Date Received: 10/18/16 09:11

Lab Sample ID: 400-128811-3

Matrix: Water

Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<0.89		1.0	0.89	mg/L			11/01/16 01:43	1
Fluoride	<0.082		0.20	0.082	mg/L			11/01/16 01:43	1
Sulfate	<0.70		1.0	0.70	mg/L			11/01/16 01:43	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0010		0.0025	0.0010	mg/L		10/24/16 13:00	10/28/16 22:23	5
Arsenic	<0.00046		0.0013	0.00046	mg/L		10/24/16 13:00	10/28/16 22:23	5
Barium	<0.00049		0.0025	0.00049	mg/L		10/24/16 13:00	10/28/16 22:23	5
Beryllium	<0.00034		0.0025	0.00034	mg/L		10/24/16 13:00	10/28/16 22:23	5
Boron	<0.021		0.050	0.021	mg/L		10/24/16 13:00	10/28/16 22:23	5
Cadmium	<0.00034		0.0025	0.00034	mg/L		10/24/16 13:00	10/28/16 22:23	5
Calcium	<0.13		0.25	0.13	mg/L		10/24/16 13:00	10/28/16 22:23	5
Chromium	<0.0011		0.0025	0.0011	mg/L		10/24/16 13:00	10/28/16 22:23	5
Cobalt	<0.00040		0.0025	0.00040	mg/L		10/24/16 13:00	10/28/16 22:23	5
Lead	<0.00035		0.0013	0.00035	mg/L		10/24/16 13:00	10/28/16 22:23	5
Lithium	<0.0032		0.0050	0.0032	mg/L		10/24/16 13:00	10/28/16 22:23	5
Molybdenum	<0.00085		0.015	0.00085	mg/L		10/24/16 13:00	10/28/16 22:23	5
Selenium	<0.00024		0.0013	0.00024	mg/L		10/24/16 13:00	10/28/16 22:23	5
Thallium	<0.000085		0.00050	0.000085	mg/L		10/24/16 13:00	10/28/16 22:23	5

Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.000070		0.00020	0.000070	mg/L		10/19/16 09:43	10/21/16 13:30	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	<3.4		5.0	3.4	mg/L			10/22/16 16:28	1

Client Sample Results

Client: Southern Company
Project/Site: CCR Plant Scherer

TestAmerica Job ID: 400-128811-1
SDG: Ash Pond

Client Sample ID: SGWC-8

Lab Sample ID: 400-128811-4

Date Collected: 10/17/16 12:45

Matrix: Water

Date Received: 10/19/16 08:19

Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	12		1.0	0.89	mg/L			11/01/16 02:06	1
Fluoride	0.51		0.20	0.082	mg/L			11/01/16 02:06	1
Sulfate	64		5.0	3.5	mg/L			11/02/16 09:13	5

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0010		0.0025	0.0010	mg/L		10/24/16 13:00	10/28/16 22:28	5
Arsenic	<0.00046		0.0013	0.00046	mg/L		10/24/16 13:00	10/28/16 22:28	5
Barium	0.17		0.0025	0.00049	mg/L		10/24/16 13:00	10/28/16 22:28	5
Beryllium	<0.00034		0.0025	0.00034	mg/L		10/24/16 13:00	10/28/16 22:28	5
Boron	0.059		0.050	0.021	mg/L		10/24/16 13:00	10/28/16 22:28	5
Cadmium	<0.00034		0.0025	0.00034	mg/L		10/24/16 13:00	10/28/16 22:28	5
Calcium	47		0.25	0.13	mg/L		10/24/16 13:00	10/28/16 22:28	5
Chromium	<0.0011		0.0025	0.0011	mg/L		10/24/16 13:00	10/28/16 22:28	5
Cobalt	<0.00040		0.0025	0.00040	mg/L		10/24/16 13:00	10/28/16 22:28	5
Lead	<0.00035		0.0013	0.00035	mg/L		10/24/16 13:00	10/28/16 22:28	5
Lithium	<0.0032		0.0050	0.0032	mg/L		10/24/16 13:00	10/28/16 22:28	5
Molybdenum	<0.00085		0.015	0.00085	mg/L		10/24/16 13:00	10/28/16 22:28	5
Selenium	<0.00024		0.0013	0.00024	mg/L		10/24/16 13:00	10/28/16 22:28	5
Thallium	<0.000085		0.00050	0.000085	mg/L		10/24/16 13:00	10/28/16 22:28	5

Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.000070		0.00020	0.000070	mg/L		10/19/16 09:43	10/21/16 13:31	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	370		5.0	3.4	mg/L			10/22/16 16:28	1

Client Sample Results

Client: Southern Company
Project/Site: CCR Plant Scherer

TestAmerica Job ID: 400-128811-1
SDG: Ash Pond

Client Sample ID: EB-1 (AP)

Date Collected: 10/17/16 11:00

Date Received: 10/18/16 09:11

Lab Sample ID: 400-128811-5

Matrix: Water

Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<0.89		1.0	0.89	mg/L			11/01/16 02:29	1
Fluoride	<0.082		0.20	0.082	mg/L			11/01/16 02:29	1
Sulfate	<0.70		1.0	0.70	mg/L			11/01/16 02:29	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0010		0.0025	0.0010	mg/L		10/24/16 13:00	10/28/16 22:32	5
Arsenic	<0.00046		0.0013	0.00046	mg/L		10/24/16 13:00	10/28/16 22:32	5
Barium	<0.00049		0.0025	0.00049	mg/L		10/24/16 13:00	10/28/16 22:32	5
Beryllium	<0.00034		0.0025	0.00034	mg/L		10/24/16 13:00	10/28/16 22:32	5
Boron	<0.021		0.050	0.021	mg/L		10/24/16 13:00	10/28/16 22:32	5
Cadmium	<0.00034		0.0025	0.00034	mg/L		10/24/16 13:00	10/28/16 22:32	5
Calcium	<0.13		0.25	0.13	mg/L		10/24/16 13:00	10/28/16 22:32	5
Chromium	<0.0011		0.0025	0.0011	mg/L		10/24/16 13:00	10/28/16 22:32	5
Cobalt	<0.00040		0.0025	0.00040	mg/L		10/24/16 13:00	10/28/16 22:32	5
Lead	<0.00035		0.0013	0.00035	mg/L		10/24/16 13:00	10/28/16 22:32	5
Lithium	<0.0032		0.0050	0.0032	mg/L		10/24/16 13:00	10/28/16 22:32	5
Molybdenum	<0.00085		0.015	0.00085	mg/L		10/24/16 13:00	10/28/16 22:32	5
Selenium	<0.00024		0.0013	0.00024	mg/L		10/24/16 13:00	10/28/16 22:32	5
Thallium	<0.000085		0.00050	0.000085	mg/L		10/24/16 13:00	10/28/16 22:32	5

Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.000072	J	0.00020	0.000070	mg/L		10/19/16 09:43	10/21/16 13:48	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	<3.4		5.0	3.4	mg/L			10/22/16 16:28	1

Client Sample Results

Client: Southern Company
Project/Site: CCR Plant Scherer

TestAmerica Job ID: 400-128811-1
SDG: Ash Pond

Client Sample ID: SGWC-13

Date Collected: 10/17/16 14:20

Date Received: 10/18/16 09:11

Lab Sample ID: 400-128811-6

Matrix: Water

Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	5.4		1.0	0.89	mg/L			11/01/16 02:52	1
Fluoride	<0.082		0.20	0.082	mg/L			11/01/16 02:52	1
Sulfate	73		5.0	3.5	mg/L			11/01/16 17:05	5

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0010		0.0025	0.0010	mg/L		10/24/16 13:00	11/07/16 15:21	5
Arsenic	<0.00046		0.0013	0.00046	mg/L		10/24/16 13:00	11/07/16 15:21	5
Barium	0.024		0.0025	0.00049	mg/L		10/24/16 13:00	11/07/16 15:21	5
Beryllium	<0.00034		0.0025	0.00034	mg/L		10/24/16 13:00	11/07/16 15:21	5
Boron	0.58		0.050	0.021	mg/L		10/24/16 13:00	11/07/16 15:21	5
Cadmium	<0.00034		0.0025	0.00034	mg/L		10/24/16 13:00	11/07/16 15:21	5
Calcium	15		0.25	0.13	mg/L		10/24/16 13:00	11/07/16 15:21	5
Chromium	<0.0011		0.0025	0.0011	mg/L		10/24/16 13:00	11/07/16 15:21	5
Cobalt	0.010		0.0025	0.00040	mg/L		10/24/16 13:00	11/07/16 15:21	5
Lead	<0.00035		0.0013	0.00035	mg/L		10/24/16 13:00	11/07/16 15:21	5
Lithium	<0.0032	^	0.0050	0.0032	mg/L		10/24/16 13:00	11/07/16 15:21	5
Molybdenum	<0.00085		0.015	0.00085	mg/L		10/24/16 13:00	11/07/16 15:21	5
Selenium	0.00030	J	0.0013	0.00024	mg/L		10/24/16 13:00	11/07/16 15:21	5
Thallium	<0.000085		0.00050	0.000085	mg/L		10/24/16 13:00	11/07/16 15:21	5

Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.000070		0.00020	0.000070	mg/L		10/19/16 09:43	10/21/16 13:49	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	140		5.0	3.4	mg/L			10/22/16 16:28	1

Client Sample Results

Client: Southern Company
Project/Site: CCR Plant Scherer

TestAmerica Job ID: 400-128811-1
SDG: Ash Pond

Client Sample ID: SGWC-11

Date Collected: 10/17/16 15:40

Date Received: 10/19/16 08:19

Lab Sample ID: 400-128811-7

Matrix: Water

Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	7.9		1.0	0.89	mg/L			11/01/16 03:14	1
Fluoride	<0.082		0.20	0.082	mg/L			11/01/16 03:14	1
Sulfate	2.1		1.0	0.70	mg/L			11/01/16 03:14	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0010		0.0025	0.0010	mg/L		10/24/16 13:00	10/28/16 22:41	5
Arsenic	0.0011	J	0.0013	0.00046	mg/L		10/24/16 13:00	10/28/16 22:41	5
Barium	0.035		0.0025	0.00049	mg/L		10/24/16 13:00	10/28/16 22:41	5
Beryllium	<0.00034		0.0025	0.00034	mg/L		10/24/16 13:00	10/28/16 22:41	5
Boron	0.25		0.050	0.021	mg/L		10/24/16 13:00	10/28/16 22:41	5
Cadmium	<0.00034		0.0025	0.00034	mg/L		10/24/16 13:00	10/28/16 22:41	5
Calcium	2.0		0.25	0.13	mg/L		10/24/16 13:00	10/28/16 22:41	5
Chromium	<0.0011		0.0025	0.0011	mg/L		10/24/16 13:00	10/28/16 22:41	5
Cobalt	0.032		0.0025	0.00040	mg/L		10/24/16 13:00	10/28/16 22:41	5
Lead	<0.00035		0.0013	0.00035	mg/L		10/24/16 13:00	10/28/16 22:41	5
Lithium	<0.0032		0.0050	0.0032	mg/L		10/24/16 13:00	10/28/16 22:41	5
Molybdenum	<0.00085		0.015	0.00085	mg/L		10/24/16 13:00	10/28/16 22:41	5
Selenium	<0.00024		0.0013	0.00024	mg/L		10/24/16 13:00	10/28/16 22:41	5
Thallium	<0.000085		0.00050	0.000085	mg/L		10/24/16 13:00	10/28/16 22:41	5

Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.000070		0.00020	0.000070	mg/L		10/19/16 09:43	10/21/16 13:50	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	24		5.0	3.4	mg/L			10/22/16 16:28	1

Client Sample Results

Client: Southern Company
Project/Site: CCR Plant Scherer

TestAmerica Job ID: 400-128811-1
SDG: Ash Pond

Client Sample ID: SGWC-6

Lab Sample ID: 400-128811-8

Date Collected: 10/17/16 15:46

Matrix: Water

Date Received: 10/18/16 09:11

Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	2.3		1.0	0.89	mg/L			11/01/16 03:37	1
Fluoride	0.11	J	0.20	0.082	mg/L			11/01/16 03:37	1
Sulfate	<0.70		1.0	0.70	mg/L			11/01/16 03:37	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0010		0.0025	0.0010	mg/L		10/24/16 13:00	10/28/16 22:46	5
Arsenic	<0.00046		0.0013	0.00046	mg/L		10/24/16 13:00	10/28/16 22:46	5
Barium	0.11		0.0025	0.00049	mg/L		10/24/16 13:00	10/28/16 22:46	5
Beryllium	<0.00034		0.0025	0.00034	mg/L		10/24/16 13:00	10/28/16 22:46	5
Boron	<0.021		0.050	0.021	mg/L		10/24/16 13:00	10/28/16 22:46	5
Cadmium	<0.00034		0.0025	0.00034	mg/L		10/24/16 13:00	10/28/16 22:46	5
Calcium	8.6		0.25	0.13	mg/L		10/24/16 13:00	10/28/16 22:46	5
Chromium	<0.0011		0.0025	0.0011	mg/L		10/24/16 13:00	10/28/16 22:46	5
Cobalt	0.0016	J	0.0025	0.00040	mg/L		10/24/16 13:00	10/28/16 22:46	5
Lead	<0.00035		0.0013	0.00035	mg/L		10/24/16 13:00	10/28/16 22:46	5
Lithium	<0.0032		0.0050	0.0032	mg/L		10/24/16 13:00	10/28/16 22:46	5
Molybdenum	<0.00085		0.015	0.00085	mg/L		10/24/16 13:00	10/28/16 22:46	5
Selenium	<0.00024		0.0013	0.00024	mg/L		10/24/16 13:00	10/28/16 22:46	5
Thallium	<0.000085		0.00050	0.000085	mg/L		10/24/16 13:00	10/28/16 22:46	5

Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.000070		0.00020	0.000070	mg/L		10/19/16 09:43	10/21/16 13:51	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	60		5.0	3.4	mg/L			10/22/16 16:28	1

Client Sample Results

Client: Southern Company
Project/Site: CCR Plant Scherer

TestAmerica Job ID: 400-128811-1
SDG: Ash Pond

Client Sample ID: SGWC-14

Lab Sample ID: 400-128811-9

Date Collected: 10/17/16 16:38

Matrix: Water

Date Received: 10/18/16 09:11

Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	11		1.0	0.89	mg/L			11/01/16 04:00	1
Fluoride	<0.082		0.20	0.082	mg/L			11/01/16 04:00	1
Sulfate	190		5.0	3.5	mg/L			11/02/16 09:36	5

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0010		0.0025	0.0010	mg/L		10/24/16 13:00	10/28/16 23:13	5
Arsenic	<0.00046		0.0013	0.00046	mg/L		10/24/16 13:00	10/28/16 23:13	5
Barium	0.060		0.0025	0.00049	mg/L		10/24/16 13:00	10/28/16 23:13	5
Beryllium	<0.00034		0.0025	0.00034	mg/L		10/24/16 13:00	10/28/16 23:13	5
Boron	1.6		0.050	0.021	mg/L		10/24/16 13:00	10/28/16 23:13	5
Cadmium	<0.00034		0.0025	0.00034	mg/L		10/24/16 13:00	10/28/16 23:13	5
Calcium	37		0.25	0.13	mg/L		10/24/16 13:00	10/28/16 23:13	5
Chromium	0.0012	J	0.0025	0.0011	mg/L		10/24/16 13:00	10/28/16 23:13	5
Cobalt	0.017		0.0025	0.00040	mg/L		10/24/16 13:00	10/28/16 23:13	5
Lead	<0.00035		0.0013	0.00035	mg/L		10/24/16 13:00	10/28/16 23:13	5
Lithium	<0.0032		0.0050	0.0032	mg/L		10/24/16 13:00	10/28/16 23:13	5
Molybdenum	<0.00085		0.015	0.00085	mg/L		10/24/16 13:00	10/28/16 23:13	5
Selenium	<0.00024		0.0013	0.00024	mg/L		10/24/16 13:00	10/28/16 23:13	5
Thallium	<0.000085		0.00050	0.000085	mg/L		10/24/16 13:00	10/28/16 23:13	5

Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.000089	J	0.00020	0.000070	mg/L		10/19/16 09:43	10/21/16 13:52	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	320		5.0	3.4	mg/L			10/22/16 16:28	1

Client Sample Results

Client: Southern Company
Project/Site: CCR Plant Scherer

TestAmerica Job ID: 400-128811-1
SDG: Ash Pond

Client Sample ID: SGWC-10

Lab Sample ID: 400-128811-10

Date Collected: 10/17/16 14:10

Matrix: Water

Date Received: 10/19/16 08:19

Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	8.9		1.0	0.89	mg/L			11/01/16 05:08	1
Fluoride	<0.082		0.20	0.082	mg/L			11/01/16 05:08	1
Sulfate	4.4		1.0	0.70	mg/L			11/01/16 05:08	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0010		0.0025	0.0010	mg/L		10/24/16 13:00	10/28/16 23:17	5
Arsenic	<0.00046		0.0013	0.00046	mg/L		10/24/16 13:00	10/28/16 23:17	5
Barium	0.027		0.0025	0.00049	mg/L		10/24/16 13:00	10/28/16 23:17	5
Beryllium	<0.00034		0.0025	0.00034	mg/L		10/24/16 13:00	10/28/16 23:17	5
Boron	0.032	J	0.050	0.021	mg/L		10/24/16 13:00	10/28/16 23:17	5
Cadmium	<0.00034		0.0025	0.00034	mg/L		10/24/16 13:00	10/28/16 23:17	5
Calcium	4.2		0.25	0.13	mg/L		10/24/16 13:00	10/28/16 23:17	5
Chromium	<0.0011		0.0025	0.0011	mg/L		10/24/16 13:00	10/28/16 23:17	5
Cobalt	0.050		0.0025	0.00040	mg/L		10/24/16 13:00	10/28/16 23:17	5
Lead	<0.00035		0.0013	0.00035	mg/L		10/24/16 13:00	10/28/16 23:17	5
Lithium	<0.0032		0.0050	0.0032	mg/L		10/24/16 13:00	10/28/16 23:17	5
Molybdenum	<0.00085		0.015	0.00085	mg/L		10/24/16 13:00	10/28/16 23:17	5
Selenium	<0.00024		0.0013	0.00024	mg/L		10/24/16 13:00	10/28/16 23:17	5
Thallium	<0.000085		0.00050	0.000085	mg/L		10/24/16 13:00	10/28/16 23:17	5

Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.000070		0.00020	0.000070	mg/L		10/19/16 09:43	10/21/16 13:54	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	6.0		5.0	3.4	mg/L			10/22/16 16:28	1

Definitions/Glossary

Client: Southern Company
Project/Site: CCR Plant Scherer

TestAmerica Job ID: 400-128811-1
SDG: Ash Pond

Qualifiers

HPLC/IC

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.
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.

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.
E	Result exceeded calibration range.
F1	MS and/or MSD Recovery is outside acceptance limits.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
^	ICV,CCV,ICB,CCB, ISA, ISB, CRI, CRA, DLCK or MRL standard: Instrument related QC is outside acceptance limits.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
α	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CNF	Contains no Free Liquid
DER	Duplicate error ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision level concentration
MDA	Minimum detectable activity
EDL	Estimated Detection Limit
MDC	Minimum detectable concentration
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
NC	Not Calculated
ND	Not detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RER	Relative error ratio
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)

Lab Chronicle

Client: Southern Company
Project/Site: CCR Plant Scherer

TestAmerica Job ID: 400-128811-1
SDG: Ash Pond

Client Sample ID: SGWC-12

Date Collected: 10/17/16 12:24

Date Received: 10/18/16 09:11

Lab Sample ID: 400-128811-1

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	300.0		1	329008	10/31/16 12:02	TAJ	TAL PEN
Total Recoverable	Prep	3005A			327627	10/24/16 13:00	RJB	TAL PEN
Total Recoverable	Analysis	6020		5	328746	10/28/16 21:34	AJR	TAL PEN
Total/NA	Prep	7470A			327535	10/21/16 09:23	JAP	TAL PEN
Total/NA	Analysis	7470A		1	328059	10/24/16 13:56	JAP	TAL PEN
Total/NA	Analysis	SM 2540C		1	327877	10/22/16 16:28	TET	TAL PEN

Client Sample ID: SGWA-4

Date Collected: 10/17/16 12:33

Date Received: 10/18/16 09:11

Lab Sample ID: 400-128811-2

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	300.0		1	329008	10/31/16 13:10	TAJ	TAL PEN
Total Recoverable	Prep	3005A			327627	10/24/16 13:00	RJB	TAL PEN
Total Recoverable	Analysis	6020		5	328746	10/28/16 22:19	AJR	TAL PEN
Total/NA	Prep	7470A			327347	10/19/16 09:43	JAP	TAL PEN
Total/NA	Analysis	7470A		1	327776	10/21/16 13:29	JAP	TAL PEN
Total/NA	Analysis	SM 2540C		1	327877	10/22/16 16:28	TET	TAL PEN

Client Sample ID: FB-1 (AP)

Date Collected: 10/17/16 12:45

Date Received: 10/18/16 09:11

Lab Sample ID: 400-128811-3

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	300.0		1	329141	11/01/16 01:43	TAJ	TAL PEN
Total Recoverable	Prep	3005A			327627	10/24/16 13:00	RJB	TAL PEN
Total Recoverable	Analysis	6020		5	328746	10/28/16 22:23	AJR	TAL PEN
Total/NA	Prep	7470A			327347	10/19/16 09:43	JAP	TAL PEN
Total/NA	Analysis	7470A		1	327776	10/21/16 13:30	JAP	TAL PEN
Total/NA	Analysis	SM 2540C		1	327877	10/22/16 16:28	TET	TAL PEN

Client Sample ID: SGWC-8

Date Collected: 10/17/16 12:45

Date Received: 10/19/16 08:19

Lab Sample ID: 400-128811-4

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	300.0		1	329141	11/01/16 02:06	TAJ	TAL PEN
Total/NA	Analysis	300.0		5	329226	11/02/16 09:13	TAJ	TAL PEN
Total Recoverable	Prep	3005A			327627	10/24/16 13:00	RJB	TAL PEN
Total Recoverable	Analysis	6020		5	328746	10/28/16 22:28	AJR	TAL PEN
Total/NA	Prep	7470A			327347	10/19/16 09:43	JAP	TAL PEN
Total/NA	Analysis	7470A		1	327776	10/21/16 13:31	JAP	TAL PEN

TestAmerica Pensacola

Lab Chronicle

Client: Southern Company
Project/Site: CCR Plant Scherer

TestAmerica Job ID: 400-128811-1
SDG: Ash Pond

Client Sample ID: SGWC-8

Date Collected: 10/17/16 12:45

Date Received: 10/19/16 08:19

Lab Sample ID: 400-128811-4

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	SM 2540C		1	327877	10/22/16 16:28	TET	TAL PEN

Client Sample ID: EB-1 (AP)

Date Collected: 10/17/16 11:00

Date Received: 10/18/16 09:11

Lab Sample ID: 400-128811-5

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	300.0		1	329141	11/01/16 02:29	TAJ	TAL PEN
Total Recoverable	Prep	3005A			327627	10/24/16 13:00	RJB	TAL PEN
Total Recoverable	Analysis	6020		5	328746	10/28/16 22:32	AJR	TAL PEN
Total/NA	Prep	7470A			327347	10/19/16 09:43	JAP	TAL PEN
Total/NA	Analysis	7470A		1	327776	10/21/16 13:48	JAP	TAL PEN
Total/NA	Analysis	SM 2540C		1	327877	10/22/16 16:28	TET	TAL PEN

Client Sample ID: SGWC-13

Date Collected: 10/17/16 14:20

Date Received: 10/18/16 09:11

Lab Sample ID: 400-128811-6

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	300.0		1	329141	11/01/16 02:52	TAJ	TAL PEN
Total/NA	Analysis	300.0		5	329226	11/01/16 17:05	TAJ	TAL PEN
Total Recoverable	Prep	3005A	RA		327627	10/24/16 13:00	RJB	TAL PEN
Total Recoverable	Analysis	6020	RA	5	330135	11/07/16 15:21	AJR	TAL PEN
Total/NA	Prep	7470A			327347	10/19/16 09:43	JAP	TAL PEN
Total/NA	Analysis	7470A		1	327776	10/21/16 13:49	JAP	TAL PEN
Total/NA	Analysis	SM 2540C		1	327877	10/22/16 16:28	TET	TAL PEN

Client Sample ID: SGWC-11

Date Collected: 10/17/16 15:40

Date Received: 10/19/16 08:19

Lab Sample ID: 400-128811-7

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	300.0		1	329141	11/01/16 03:14	TAJ	TAL PEN
Total Recoverable	Prep	3005A			327627	10/24/16 13:00	RJB	TAL PEN
Total Recoverable	Analysis	6020		5	328746	10/28/16 22:41	AJR	TAL PEN
Total/NA	Prep	7470A			327347	10/19/16 09:43	JAP	TAL PEN
Total/NA	Analysis	7470A		1	327776	10/21/16 13:50	JAP	TAL PEN
Total/NA	Analysis	SM 2540C		1	327877	10/22/16 16:28	TET	TAL PEN

Lab Chronicle

Client: Southern Company
Project/Site: CCR Plant Scherer

TestAmerica Job ID: 400-128811-1
SDG: Ash Pond

Client Sample ID: SGWC-6

Date Collected: 10/17/16 15:46

Date Received: 10/18/16 09:11

Lab Sample ID: 400-128811-8

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	300.0		1	329141	11/01/16 03:37	TAJ	TAL PEN
Total Recoverable	Prep	3005A			327630	10/24/16 13:00	RJB	TAL PEN
Total Recoverable	Analysis	6020		5	328746	10/28/16 22:46	AJR	TAL PEN
Total/NA	Prep	7470A			327347	10/19/16 09:43	JAP	TAL PEN
Total/NA	Analysis	7470A		1	327776	10/21/16 13:51	JAP	TAL PEN
Total/NA	Analysis	SM 2540C		1	327877	10/22/16 16:28	TET	TAL PEN

Client Sample ID: SGWC-14

Date Collected: 10/17/16 16:38

Date Received: 10/18/16 09:11

Lab Sample ID: 400-128811-9

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	300.0		1	329141	11/01/16 04:00	TAJ	TAL PEN
Total/NA	Analysis	300.0		5	329226	11/02/16 09:36	TAJ	TAL PEN
Total Recoverable	Prep	3005A			327630	10/24/16 13:00	RJB	TAL PEN
Total Recoverable	Analysis	6020		5	328746	10/28/16 23:13	AJR	TAL PEN
Total/NA	Prep	7470A			327347	10/19/16 09:43	JAP	TAL PEN
Total/NA	Analysis	7470A		1	327776	10/21/16 13:52	JAP	TAL PEN
Total/NA	Analysis	SM 2540C		1	327877	10/22/16 16:28	TET	TAL PEN

Client Sample ID: SGWC-10

Date Collected: 10/17/16 14:10

Date Received: 10/19/16 08:19

Lab Sample ID: 400-128811-10

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	300.0		1	329141	11/01/16 05:08	TAJ	TAL PEN
Total Recoverable	Prep	3005A			327630	10/24/16 13:00	RJB	TAL PEN
Total Recoverable	Analysis	6020		5	328746	10/28/16 23:17	AJR	TAL PEN
Total/NA	Prep	7470A			327347	10/19/16 09:43	JAP	TAL PEN
Total/NA	Analysis	7470A		1	327776	10/21/16 13:54	JAP	TAL PEN
Total/NA	Analysis	SM 2540C		1	327877	10/22/16 16:28	TET	TAL PEN

Laboratory References:

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

QC Association Summary

Client: Southern Company
Project/Site: CCR Plant Scherer

TestAmerica Job ID: 400-128811-1
SDG: Ash Pond

HPLC/IC

Analysis Batch: 329008

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-128811-1	SGWC-12	Total/NA	Water	300.0	
400-128811-2	SGWA-4	Total/NA	Water	300.0	
MB 400-329008/4	Method Blank	Total/NA	Water	300.0	
LCS 400-329008/5	Lab Control Sample	Total/NA	Water	300.0	
LCSD 400-329008/6	Lab Control Sample Dup	Total/NA	Water	300.0	
400-128811-1 MS	SGWC-12	Total/NA	Water	300.0	
400-128811-1 MSD	SGWC-12	Total/NA	Water	300.0	

Analysis Batch: 329141

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-128811-3	FB-1 (AP)	Total/NA	Water	300.0	
400-128811-4	SGWC-8	Total/NA	Water	300.0	
400-128811-5	EB-1 (AP)	Total/NA	Water	300.0	
400-128811-6	SGWC-13	Total/NA	Water	300.0	
400-128811-7	SGWC-11	Total/NA	Water	300.0	
400-128811-8	SGWC-6	Total/NA	Water	300.0	
400-128811-9	SGWC-14	Total/NA	Water	300.0	
400-128811-10	SGWC-10	Total/NA	Water	300.0	
MB 400-329141/34	Method Blank	Total/NA	Water	300.0	
LCS 400-329141/35	Lab Control Sample	Total/NA	Water	300.0	
LCSD 400-329141/36	Lab Control Sample Dup	Total/NA	Water	300.0	
400-128698-L-1 MS	Matrix Spike	Total/NA	Water	300.0	
400-128698-L-1 MSD	Matrix Spike Duplicate	Total/NA	Water	300.0	

Analysis Batch: 329226

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-128811-4	SGWC-8	Total/NA	Water	300.0	
400-128811-6	SGWC-13	Total/NA	Water	300.0	
400-128811-9	SGWC-14	Total/NA	Water	300.0	
MB 400-329226/3	Method Blank	Total/NA	Water	300.0	
LCS 400-329226/4	Lab Control Sample	Total/NA	Water	300.0	
LCSD 400-329226/5	Lab Control Sample Dup	Total/NA	Water	300.0	
400-128811-6 MS	SGWC-13	Total/NA	Water	300.0	
400-129208-I-1 MSD	Matrix Spike Duplicate	Total/NA	Water	300.0	

Metals

Prep Batch: 327347

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-128811-2	SGWA-4	Total/NA	Water	7470A	
400-128811-3	FB-1 (AP)	Total/NA	Water	7470A	
400-128811-4	SGWC-8	Total/NA	Water	7470A	
400-128811-5	EB-1 (AP)	Total/NA	Water	7470A	
400-128811-6	SGWC-13	Total/NA	Water	7470A	
400-128811-7	SGWC-11	Total/NA	Water	7470A	
400-128811-8	SGWC-6	Total/NA	Water	7470A	
400-128811-9	SGWC-14	Total/NA	Water	7470A	
400-128811-10	SGWC-10	Total/NA	Water	7470A	
MB 400-327347/14-A	Method Blank	Total/NA	Water	7470A	
LCS 400-327347/15-A	Lab Control Sample	Total/NA	Water	7470A	

TestAmerica Pensacola

QC Association Summary

Client: Southern Company
Project/Site: CCR Plant Scherer

TestAmerica Job ID: 400-128811-1
SDG: Ash Pond

Metals (Continued)

Prep Batch: 327347 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-128828-J-4-B MS	Matrix Spike	Total/NA	Water	7470A	
400-128828-J-4-C MSD	Matrix Spike Duplicate	Total/NA	Water	7470A	

Prep Batch: 327535

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-128811-1	SGWC-12	Total/NA	Water	7470A	
MB 400-327535/14-A	Method Blank	Total/NA	Water	7470A	
LCS 400-327535/15-A	Lab Control Sample	Total/NA	Water	7470A	
400-128811-1 MS	SGWC-12	Total/NA	Water	7470A	
400-128811-1 MSD	SGWC-12	Total/NA	Water	7470A	

Prep Batch: 327627

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-128811-1	SGWC-12	Total Recoverable	Water	3005A	
400-128811-2	SGWA-4	Total Recoverable	Water	3005A	
400-128811-3	FB-1 (AP)	Total Recoverable	Water	3005A	
400-128811-4	SGWC-8	Total Recoverable	Water	3005A	
400-128811-5	EB-1 (AP)	Total Recoverable	Water	3005A	
400-128811-6 - RA	SGWC-13	Total Recoverable	Water	3005A	
400-128811-7	SGWC-11	Total Recoverable	Water	3005A	
MB 400-327627/1-A ^5	Method Blank	Total Recoverable	Water	3005A	
LCS 400-327627/2-A	Lab Control Sample	Total Recoverable	Water	3005A	
400-128811-1 MS	SGWC-12	Total Recoverable	Water	3005A	
400-128811-1 MSD	SGWC-12	Total Recoverable	Water	3005A	

Prep Batch: 327630

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-128811-8	SGWC-6	Total Recoverable	Water	3005A	
400-128811-9	SGWC-14	Total Recoverable	Water	3005A	
400-128811-10	SGWC-10	Total Recoverable	Water	3005A	
MB 400-327630/1-A ^5	Method Blank	Total Recoverable	Water	3005A	
LCS 400-327630/2-A	Lab Control Sample	Total Recoverable	Water	3005A	
400-128611-B-7-E MS ^5	Matrix Spike	Total Recoverable	Water	3005A	
400-128611-B-7-F MSD ^5	Matrix Spike Duplicate	Total Recoverable	Water	3005A	

Analysis Batch: 327776

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-128811-2	SGWA-4	Total/NA	Water	7470A	327347
400-128811-3	FB-1 (AP)	Total/NA	Water	7470A	327347
400-128811-4	SGWC-8	Total/NA	Water	7470A	327347
400-128811-5	EB-1 (AP)	Total/NA	Water	7470A	327347
400-128811-6	SGWC-13	Total/NA	Water	7470A	327347
400-128811-7	SGWC-11	Total/NA	Water	7470A	327347
400-128811-8	SGWC-6	Total/NA	Water	7470A	327347
400-128811-9	SGWC-14	Total/NA	Water	7470A	327347
400-128811-10	SGWC-10	Total/NA	Water	7470A	327347
MB 400-327347/14-A	Method Blank	Total/NA	Water	7470A	327347
LCS 400-327347/15-A	Lab Control Sample	Total/NA	Water	7470A	327347
400-128828-J-4-B MS	Matrix Spike	Total/NA	Water	7470A	327347
400-128828-J-4-C MSD	Matrix Spike Duplicate	Total/NA	Water	7470A	327347

QC Association Summary

Client: Southern Company
Project/Site: CCR Plant Scherer

TestAmerica Job ID: 400-128811-1
SDG: Ash Pond

Metals (Continued)

Analysis Batch: 328059

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-128811-1	SGWC-12	Total/NA	Water	7470A	327535
MB 400-327535/14-A	Method Blank	Total/NA	Water	7470A	327535
LCS 400-327535/15-A	Lab Control Sample	Total/NA	Water	7470A	327535
400-128811-1 MS	SGWC-12	Total/NA	Water	7470A	327535
400-128811-1 MSD	SGWC-12	Total/NA	Water	7470A	327535

Analysis Batch: 328560

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 400-327627/1-A ^5	Method Blank	Total Recoverable	Water	6020	327627
LCS 400-327627/2-A	Lab Control Sample	Total Recoverable	Water	6020	327627

Analysis Batch: 328746

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-128811-1	SGWC-12	Total Recoverable	Water	6020	327627
400-128811-2	SGWA-4	Total Recoverable	Water	6020	327627
400-128811-3	FB-1 (AP)	Total Recoverable	Water	6020	327627
400-128811-4	SGWC-8	Total Recoverable	Water	6020	327627
400-128811-5	EB-1 (AP)	Total Recoverable	Water	6020	327627
400-128811-7	SGWC-11	Total Recoverable	Water	6020	327627
400-128811-8	SGWC-6	Total Recoverable	Water	6020	327630
400-128811-9	SGWC-14	Total Recoverable	Water	6020	327630
400-128811-10	SGWC-10	Total Recoverable	Water	6020	327630
MB 400-327630/1-A ^5	Method Blank	Total Recoverable	Water	6020	327630
LCS 400-327630/2-A	Lab Control Sample	Total Recoverable	Water	6020	327630
400-128611-B-7-E MS ^5	Matrix Spike	Total Recoverable	Water	6020	327630
400-128611-B-7-F MSD ^5	Matrix Spike Duplicate	Total Recoverable	Water	6020	327630
400-128811-1 MS	SGWC-12	Total Recoverable	Water	6020	327627
400-128811-1 MSD	SGWC-12	Total Recoverable	Water	6020	327627

Analysis Batch: 330135

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-128811-6 - RA	SGWC-13	Total Recoverable	Water	6020	327627

General Chemistry

Analysis Batch: 327877

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-128811-1	SGWC-12	Total/NA	Water	SM 2540C	
400-128811-2	SGWA-4	Total/NA	Water	SM 2540C	
400-128811-3	FB-1 (AP)	Total/NA	Water	SM 2540C	
400-128811-4	SGWC-8	Total/NA	Water	SM 2540C	
400-128811-5	EB-1 (AP)	Total/NA	Water	SM 2540C	
400-128811-6	SGWC-13	Total/NA	Water	SM 2540C	
400-128811-7	SGWC-11	Total/NA	Water	SM 2540C	
400-128811-8	SGWC-6	Total/NA	Water	SM 2540C	
400-128811-9	SGWC-14	Total/NA	Water	SM 2540C	
400-128811-10	SGWC-10	Total/NA	Water	SM 2540C	
MB 400-327877/1	Method Blank	Total/NA	Water	SM 2540C	
LCS 400-327877/2	Lab Control Sample	Total/NA	Water	SM 2540C	
400-128811-1 DU	SGWC-12	Total/NA	Water	SM 2540C	

TestAmerica Pensacola

QC Sample Results

Client: Southern Company
Project/Site: CCR Plant Scherer

TestAmerica Job ID: 400-128811-1
SDG: Ash Pond

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 400-329008/4
Matrix: Water
Analysis Batch: 329008

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<0.89		1.0	0.89	mg/L			10/31/16 10:53	1
Fluoride	<0.082		0.20	0.082	mg/L			10/31/16 10:53	1
Sulfate	<0.70		1.0	0.70	mg/L			10/31/16 10:53	1

Lab Sample ID: LCS 400-329008/5
Matrix: Water
Analysis Batch: 329008

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloride	10.0	9.46		mg/L		95	90 - 110
Fluoride	10.0	10.1		mg/L		101	90 - 110
Sulfate	10.0	10.0		mg/L		100	90 - 110

Lab Sample ID: LCSD 400-329008/6
Matrix: Water
Analysis Batch: 329008

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
Chloride	10.0	9.49		mg/L		95	90 - 110	0	15
Fluoride	10.0	10.1		mg/L		101	90 - 110	0	15
Sulfate	10.0	10.1		mg/L		101	90 - 110	1	15

Lab Sample ID: 400-128811-1 MS
Matrix: Water
Analysis Batch: 329008

Client Sample ID: SGWC-12
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloride	8.3		10.0	19.0		mg/L		107	80 - 120
Fluoride	0.082	J	10.0	11.0		mg/L		109	80 - 120
Sulfate	23		10.0	35.0		mg/L		118	80 - 120

Lab Sample ID: 400-128811-1 MSD
Matrix: Water
Analysis Batch: 329008

Client Sample ID: SGWC-12
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Chloride	8.3		10.0	19.0		mg/L		107	80 - 120	0	20
Fluoride	0.082	J	10.0	11.1		mg/L		110	80 - 120	0	20
Sulfate	23		10.0	35.2		mg/L		120	80 - 120	0	20

Lab Sample ID: MB 400-329141/34
Matrix: Water
Analysis Batch: 329141

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<0.89		1.0	0.89	mg/L			10/31/16 22:18	1
Fluoride	<0.082		0.20	0.082	mg/L			10/31/16 22:18	1
Sulfate	<0.70		1.0	0.70	mg/L			10/31/16 22:18	1

TestAmerica Pensacola

QC Sample Results

Client: Southern Company
Project/Site: CCR Plant Scherer

TestAmerica Job ID: 400-128811-1
SDG: Ash Pond

Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: LCS 400-329141/35
Matrix: Water
Analysis Batch: 329141

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloride	10.0	9.25		mg/L		93	90 - 110
Fluoride	10.0	9.85		mg/L		98	90 - 110
Sulfate	10.0	9.70		mg/L		97	90 - 110

Lab Sample ID: LCSD 400-329141/36
Matrix: Water
Analysis Batch: 329141

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
Chloride	10.0	9.26		mg/L		93	90 - 110	0	15
Fluoride	10.0	9.98		mg/L		100	90 - 110	1	15
Sulfate	10.0	9.87		mg/L		99	90 - 110	2	15

Lab Sample ID: 400-128698-L-1 MS
Matrix: Water
Analysis Batch: 329141

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	36.6		mg/L		94	80 - 120
Fluoride	0.16	J	10.0	10.9		mg/L		108	80 - 120
Sulfate	16		10.0	27.0		mg/L		105	80 - 120

Lab Sample ID: 400-128698-L-1 MSD
Matrix: Water
Analysis Batch: 329141

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	36.5		mg/L		93	80 - 120	0	20
Fluoride	0.16	J	10.0	11.0		mg/L		108	80 - 120	0	20
Sulfate	16		10.0	26.9		mg/L		105	80 - 120	0	20

Lab Sample ID: MB 400-329226/3
Matrix: Water
Analysis Batch: 329226

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<0.89		1.0	0.89	mg/L			11/01/16 10:28	1
Fluoride	<0.082		0.20	0.082	mg/L			11/01/16 10:28	1
Sulfate	<0.70		1.0	0.70	mg/L			11/01/16 10:28	1

Lab Sample ID: LCS 400-329226/4
Matrix: Water
Analysis Batch: 329226

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloride	10.0	9.14		mg/L		91	90 - 110
Fluoride	10.0	9.78		mg/L		98	90 - 110
Sulfate	10.0	9.64		mg/L		96	90 - 110

TestAmerica Pensacola

QC Sample Results

Client: Southern Company
Project/Site: CCR Plant Scherer

TestAmerica Job ID: 400-128811-1
SDG: Ash Pond

Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: LCSD 400-329226/5
Matrix: Water
Analysis Batch: 329226

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
Chloride	10.0	9.25		mg/L		92	90 - 110	1	15
Fluoride	10.0	9.86		mg/L		99	90 - 110	1	15
Sulfate	10.0	9.73		mg/L		97	90 - 110	1	15

Lab Sample ID: 400-128811-6 MS
Matrix: Water
Analysis Batch: 329226

Client Sample ID: SGWC-13
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloride	5.5		50.0	56.0		mg/L		101	80 - 120
Fluoride	<0.41		50.0	53.5		mg/L		107	80 - 120
Sulfate	73		50.0	124		mg/L		103	80 - 120

Lab Sample ID: 400-129208-I-1 MSD
Matrix: Water
Analysis Batch: 329226

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	140	E	10.0	151	E 4	mg/L		82	80 - 120	0	20
Fluoride	<0.082		10.0	10.9		mg/L		109	80 - 120	0	20
Sulfate	8.3		10.0	18.8		mg/L		106	80 - 120	1	20

Method: 6020 - Metals (ICP/MS)

Lab Sample ID: MB 400-327627/1-A ^5
Matrix: Water
Analysis Batch: 328560

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 327627

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0010		0.0025	0.0010	mg/L		10/24/16 13:00	10/27/16 22:19	5
Arsenic	<0.00046		0.0013	0.00046	mg/L		10/24/16 13:00	10/27/16 22:19	5
Barium	<0.00049		0.0025	0.00049	mg/L		10/24/16 13:00	10/27/16 22:19	5
Beryllium	<0.00034		0.0025	0.00034	mg/L		10/24/16 13:00	10/27/16 22:19	5
Boron	<0.021		0.050	0.021	mg/L		10/24/16 13:00	10/27/16 22:19	5
Cadmium	<0.00034		0.0025	0.00034	mg/L		10/24/16 13:00	10/27/16 22:19	5
Calcium	<0.13		0.25	0.13	mg/L		10/24/16 13:00	10/27/16 22:19	5
Chromium	<0.0011		0.0025	0.0011	mg/L		10/24/16 13:00	10/27/16 22:19	5
Cobalt	<0.00040		0.0025	0.00040	mg/L		10/24/16 13:00	10/27/16 22:19	5
Lead	<0.00035		0.0013	0.00035	mg/L		10/24/16 13:00	10/27/16 22:19	5
Lithium	<0.0032		0.0050	0.0032	mg/L		10/24/16 13:00	10/27/16 22:19	5
Molybdenum	<0.00085		0.015	0.00085	mg/L		10/24/16 13:00	10/27/16 22:19	5
Selenium	<0.00024		0.0013	0.00024	mg/L		10/24/16 13:00	10/27/16 22:19	5
Thallium	<0.000085		0.00050	0.000085	mg/L		10/24/16 13:00	10/27/16 22:19	5

TestAmerica Pensacola

QC Sample Results

Client: Southern Company
Project/Site: CCR Plant Scherer

TestAmerica Job ID: 400-128811-1
SDG: Ash Pond

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

Lab Sample ID: LCS 400-327627/2-A
Matrix: Water
Analysis Batch: 328560

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 327627

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	Limits
Antimony	0.0500	0.0523		mg/L		105	80 - 120
Arsenic	0.0500	0.0518		mg/L		104	80 - 120
Barium	0.0500	0.0498		mg/L		100	80 - 120
Beryllium	0.0500	0.0505		mg/L		101	80 - 120
Boron	0.100	0.0936		mg/L		94	80 - 120
Cadmium	0.0500	0.0510		mg/L		102	80 - 120
Calcium	5.00	5.09		mg/L		102	80 - 120
Chromium	0.0500	0.0488		mg/L		98	80 - 120
Cobalt	0.0500	0.0482		mg/L		96	80 - 120
Lead	0.0500	0.0442		mg/L		88	80 - 120
Lithium	0.0500	0.0449		mg/L		90	80 - 120
Molybdenum	0.0500	0.0505		mg/L		101	80 - 120
Selenium	0.0500	0.0525		mg/L		105	80 - 120
Thallium	0.0100	0.0104		mg/L		104	80 - 120

Lab Sample ID: 400-128811-1 MS
Matrix: Water
Analysis Batch: 328746

Client Sample ID: SGWC-12
Prep Type: Total Recoverable
Prep Batch: 327627

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	Limits
Antimony	<0.0010		0.0625	0.0654		mg/L		105	75 - 125
Arsenic	<0.00046		0.0625	0.0676		mg/L		108	75 - 125
Barium	0.032		0.0625	0.0968		mg/L		103	75 - 125
Beryllium	<0.00034		0.0625	0.0627		mg/L		100	75 - 125
Boron	<0.021		0.125	0.137		mg/L		109	75 - 125
Cadmium	<0.00034		0.0625	0.0641		mg/L		103	75 - 125
Calcium	21		6.25	28.9		mg/L		119	75 - 125
Chromium	0.0023	J	0.0625	0.0660		mg/L		102	75 - 125
Cobalt	0.0030		0.0625	0.0690		mg/L		106	75 - 125
Lead	<0.00035	F1	0.0625	0.0475		mg/L		76	75 - 125
Lithium	<0.0032		0.0625	0.0607		mg/L		97	75 - 125
Molybdenum	<0.00085		0.0625	0.0652		mg/L		104	75 - 125
Selenium	<0.00024		0.0625	0.0649		mg/L		104	75 - 125
Thallium	<0.00085		0.0125	0.0122		mg/L		98	75 - 125

Lab Sample ID: 400-128811-1 MSD
Matrix: Water
Analysis Batch: 328746

Client Sample ID: SGWC-12
Prep Type: Total Recoverable
Prep Batch: 327627

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Antimony	<0.0010		0.0625	0.0624		mg/L		100	75 - 125	5	20
Arsenic	<0.00046		0.0625	0.0655		mg/L		105	75 - 125	3	20
Barium	0.032		0.0625	0.0947		mg/L		100	75 - 125	2	20
Beryllium	<0.00034		0.0625	0.0616		mg/L		99	75 - 125	2	20
Boron	<0.021		0.125	0.126		mg/L		101	75 - 125	8	20
Cadmium	<0.00034		0.0625	0.0640		mg/L		102	75 - 125	0	20
Calcium	21		6.25	27.9		mg/L		104	75 - 125	3	20
Chromium	0.0023	J	0.0625	0.0628		mg/L		97	75 - 125	5	20

TestAmerica Pensacola

QC Sample Results

Client: Southern Company
Project/Site: CCR Plant Scherer

TestAmerica Job ID: 400-128811-1
SDG: Ash Pond

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

Lab Sample ID: 400-128811-1 MSD
Matrix: Water
Analysis Batch: 328746

Client Sample ID: SGWC-12
Prep Type: Total Recoverable
Prep Batch: 327627

Analyte	Sample	Sample	Spike	MSD		Unit	D	%Rec	%Rec.		RPD	Limit
	Result	Qualifier		Result	Qualifier				Limits	RPD		
Cobalt	0.0030		0.0625	0.0674		mg/L		103	75 - 125	2	20	
Lead	<0.00035	F1	0.0625	0.0460	F1	mg/L		74	75 - 125	3	20	
Lithium	<0.0032		0.0625	0.0580		mg/L		93	75 - 125	5	20	
Molybdenum	<0.00085		0.0625	0.0635		mg/L		102	75 - 125	3	20	
Selenium	<0.00024		0.0625	0.0622		mg/L		100	75 - 125	4	20	
Thallium	<0.000085		0.0125	0.0120		mg/L		96	75 - 125	2	20	

Lab Sample ID: MB 400-327630/1-A ^5
Matrix: Water
Analysis Batch: 328746

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 327630

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Antimony	<0.0010		0.0025	0.0010	mg/L		10/24/16 13:00	10/28/16 12:12	5
Arsenic	<0.00046		0.0013	0.00046	mg/L		10/24/16 13:00	10/28/16 12:12	5
Barium	<0.00049		0.0025	0.00049	mg/L		10/24/16 13:00	10/28/16 12:12	5
Beryllium	<0.00034		0.0025	0.00034	mg/L		10/24/16 13:00	10/28/16 12:12	5
Boron	<0.021		0.050	0.021	mg/L		10/24/16 13:00	10/28/16 12:12	5
Cadmium	<0.00034		0.0025	0.00034	mg/L		10/24/16 13:00	10/28/16 12:12	5
Calcium	<0.13		0.25	0.13	mg/L		10/24/16 13:00	10/28/16 12:12	5
Chromium	<0.0011		0.0025	0.0011	mg/L		10/24/16 13:00	10/28/16 12:12	5
Cobalt	<0.00040		0.0025	0.00040	mg/L		10/24/16 13:00	10/28/16 12:12	5
Lead	<0.00035		0.0013	0.00035	mg/L		10/24/16 13:00	10/28/16 12:12	5
Lithium	<0.0032		0.0050	0.0032	mg/L		10/24/16 13:00	10/28/16 12:12	5
Molybdenum	<0.00085		0.015	0.00085	mg/L		10/24/16 13:00	10/28/16 12:12	5
Selenium	<0.00024		0.0013	0.00024	mg/L		10/24/16 13:00	10/28/16 12:12	5
Thallium	<0.000085		0.00050	0.000085	mg/L		10/24/16 13:00	10/28/16 12:12	5

Lab Sample ID: LCS 400-327630/2-A
Matrix: Water
Analysis Batch: 328746

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 327630

Analyte	Spike	LCS		Unit	D	%Rec	%Rec.	
		Added	Result				Qualifier	Limits
Antimony	0.0500	0.0526		mg/L		105	80 - 120	
Arsenic	0.0500	0.0521		mg/L		104	80 - 120	
Barium	0.0500	0.0497		mg/L		99	80 - 120	
Beryllium	0.0500	0.0499		mg/L		100	80 - 120	
Boron	0.100	0.0942		mg/L		94	80 - 120	
Cadmium	0.0500	0.0529		mg/L		106	80 - 120	
Calcium	5.00	5.06		mg/L		101	80 - 120	
Chromium	0.0500	0.0509		mg/L		102	80 - 120	
Cobalt	0.0500	0.0478		mg/L		96	80 - 120	
Lead	0.0500	0.0452		mg/L		90	80 - 120	
Lithium	0.0500	0.0514		mg/L		103	80 - 120	
Molybdenum	0.0500	0.0508		mg/L		102	80 - 120	
Selenium	0.0500	0.0512		mg/L		102	80 - 120	
Thallium	0.0100	0.0104		mg/L		104	80 - 120	

TestAmerica Pensacola

QC Sample Results

Client: Southern Company
Project/Site: CCR Plant Scherer

TestAmerica Job ID: 400-128811-1
SDG: Ash Pond

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

Lab Sample ID: 400-128611-B-7-E MS ^5

Matrix: Water

Analysis Batch: 328746

Client Sample ID: Matrix Spike

Prep Type: Total Recoverable

Prep Batch: 327630

Analyte	Sample	Sample Qualifier	Spike Added	MS	MS Qualifier	Unit	D	%Rec	%Rec.	
	Result			Result					Limits	Limits
Antimony	<0.0010		0.0500	0.0537		mg/L		107	75 - 125	
Arsenic	0.00047	J	0.0500	0.0538		mg/L		107	75 - 125	
Barium	0.025		0.0500	0.0780		mg/L		107	75 - 125	
Beryllium	<0.00034		0.0500	0.0510		mg/L		102	75 - 125	
Boron	0.57		0.100	0.664	4	mg/L		96	75 - 125	
Cadmium	<0.00034		0.0500	0.0548		mg/L		110	75 - 125	
Calcium	320	E	5.00	311	E 4	mg/L		-97	75 - 125	
Chromium	0.0015	J	0.0500	0.0519		mg/L		101	75 - 125	
Cobalt	<0.00040		0.0500	0.0523		mg/L		105	75 - 125	
Lead	<0.00035		0.0500	0.0405		mg/L		81	75 - 125	
Lithium	0.045		0.0500	0.0920		mg/L		94	75 - 125	
Molybdenum	0.0013	J	0.0500	0.0519		mg/L		101	75 - 125	
Selenium	<0.00024		0.0500	0.0411		mg/L		82	75 - 125	
Thallium	<0.000085		0.0100	0.0107		mg/L		107	75 - 125	

Lab Sample ID: 400-128611-B-7-F MSD ^5

Matrix: Water

Analysis Batch: 328746

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total Recoverable

Prep Batch: 327630

Analyte	Sample	Sample Qualifier	Spike Added	MSD	MSD Qualifier	Unit	D	%Rec	%Rec.		RPD	
	Result			Result					Limits	RPD	Limit	
Antimony	<0.0010		0.0500	0.0528		mg/L		106	75 - 125	2	20	
Arsenic	0.00047	J	0.0500	0.0545		mg/L		108	75 - 125	1	20	
Barium	0.025		0.0500	0.0774		mg/L		106	75 - 125	1	20	
Beryllium	<0.00034		0.0500	0.0515		mg/L		103	75 - 125	1	20	
Boron	0.57		0.100	0.642	4	mg/L		74	75 - 125	3	20	
Cadmium	<0.00034		0.0500	0.0526		mg/L		105	75 - 125	4	20	
Calcium	320	E	5.00	321	E 4	mg/L		104	75 - 125	3	20	
Chromium	0.0015	J	0.0500	0.0532		mg/L		103	75 - 125	2	20	
Cobalt	<0.00040		0.0500	0.0530		mg/L		106	75 - 125	1	20	
Lead	<0.00035		0.0500	0.0410		mg/L		82	75 - 125	1	20	
Lithium	0.045		0.0500	0.0920		mg/L		94	75 - 125	0	20	
Molybdenum	0.0013	J	0.0500	0.0517		mg/L		101	75 - 125	0	20	
Selenium	<0.00024		0.0500	0.0448		mg/L		90	75 - 125	9	20	
Thallium	<0.000085		0.0100	0.0106		mg/L		106	75 - 125	1	20	

Method: 7470A - Mercury (CVAA)

Lab Sample ID: MB 400-327347/14-A

Matrix: Water

Analysis Batch: 327776

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 327347

Analyte	MB	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result								
Mercury	<0.000070		0.00020	0.000070	mg/L		10/19/16 09:35	10/21/16 13:03	1

TestAmerica Pensacola

QC Sample Results

Client: Southern Company
Project/Site: CCR Plant Scherer

TestAmerica Job ID: 400-128811-1
SDG: Ash Pond

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

Lab Sample ID: LCS 400-327347/15-A
Matrix: Water
Analysis Batch: 327776

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 327347

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	Limits
Mercury	0.00101	0.00100		mg/L		100	80 - 120

Lab Sample ID: 400-128828-J-4-B MS
Matrix: Water
Analysis Batch: 327776

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 327347

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	Limits
Mercury	<0.000070		0.00201	0.00209		mg/L		104	80 - 120

Lab Sample ID: 400-128828-J-4-C MSD
Matrix: Water
Analysis Batch: 327776

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA
Prep Batch: 327347

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Mercury	<0.000070		0.00201	0.00202		mg/L		100	80 - 120	3	20

Lab Sample ID: MB 400-327535/14-A
Matrix: Water
Analysis Batch: 328059

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 327535

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.000070		0.00020	0.000070	mg/L		10/20/16 09:40	10/24/16 13:05	1

Lab Sample ID: LCS 400-327535/15-A
Matrix: Water
Analysis Batch: 328059

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 327535

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	Limits
Mercury	0.00101	0.000975		mg/L		97	80 - 120

Lab Sample ID: 400-128811-1 MS
Matrix: Water
Analysis Batch: 328059

Client Sample ID: SGWC-12
Prep Type: Total/NA
Prep Batch: 327535

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	Limits
Mercury	<0.000070	F1	0.00201	0.00143	F1	mg/L		71	80 - 120

Lab Sample ID: 400-128811-1 MSD
Matrix: Water
Analysis Batch: 328059

Client Sample ID: SGWC-12
Prep Type: Total/NA
Prep Batch: 327535

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Mercury	<0.000070	F1	0.00201	0.00136	F1	mg/L		68	80 - 120	5	20

QC Sample Results

Client: Southern Company
 Project/Site: CCR Plant Scherer

TestAmerica Job ID: 400-128811-1
 SDG: Ash Pond

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

Lab Sample ID: MB 400-327877/1
Matrix: Water
Analysis Batch: 327877

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	<3.4		5.0	3.4	mg/L			10/22/16 16:28	1

Lab Sample ID: LCS 400-327877/2
Matrix: Water
Analysis Batch: 327877

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: 400-128811-1 DU
Matrix: Water
Analysis Batch: 327877

Client Sample ID: SGWC-12
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Total Dissolved Solids	160		166		mg/L		1	5

Chain of Custody Record

Client Information Client Contact: Joju Abraham Company: Southern Company Address: 241 Ralph McGill Blvd SE B10185 City: Atlanta State, Zip: GA, 30308 Phone: _____ Email: JAbraham@southernco.com Project Name: CCR - Scherer Site: Ash Pond		Lab PM: Whitmore, Cheyenne R E-Mail: cheyenne.whitmore@testamericainc.com Sampler: Ben Hodges Phone: 912-258-7457		Carrier Tracking No(s): 400-57303-24790.5 Page: 5 of 8 Job #: _____	
Due Date Requested: _____ TAT Requested (days): _____ PO #: GPC10624814 WO #: _____ Project #: 40007041 SSOW#: _____		Analysis Requested 2540C-TDS, 300_ORGFM_28D-Chloride,Fluoride,Sulfate 6020-SB,As,Ba,Be,Cd,Cr,Cu,Pb,LI,Mo,Se,Tl,7470A-Hg 9316_Ra226,9320_Ra228,Ra228Ra228_GFPCC			
Sample Identification		Field Filtered Sample (Yes or No)			
Sample ID	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water, S=solid, O=wasteoil, B=Blood, A=Air)	Preservation Code
SGWC-12	10/17/16	1224	G	Water	M
SGWA-4		1233	G	Water	M
FB-1(AP)		1245	G	Water	M
SGWC-8		1245	G	Water	M
EB-1(AP)		1100	G	Water	M
SGWC-13		1420	G	Water	M
SGWC-11		1540	G	Water	M
SGWC-6		1546	G	Water	M
SGWC-14		1638	G	Water	M
SGWC-10		1410	G	Water	M
				Water	
Possible Hazard Identification <input checked="" type="checkbox"/> Non-Hazard <input type="checkbox"/> Flammable <input type="checkbox"/> Skin Irritant <input type="checkbox"/> Poison B <input type="checkbox"/> Unknown <input type="checkbox"/> Radiobiological		Special Instructions/Note: 1 Extra Radium Level 4 DU Level 4 DU Level 4 DU  400-128811 COC			
Sample Disposal (A fee may be assessed if samples are retained longer than 1 month) <input type="checkbox"/> Return To Client <input checked="" type="checkbox"/> Disposal By Lab <input type="checkbox"/> Archive For _____ Months		Special Instructions/QC Requirements:			
Deliverable Requested: I, II, III, IV, Other (specify) _____		Method of Shipment: _____			
Empty Kit Relinquished by: _____		Time: _____			
Relinquished by: Ben A		Date/Time: 10/17/16 1830		Company: Golden	
Relinquished by: _____		Date/Time: _____		Company: _____	
Relinquished by: _____		Date/Time: _____		Company: _____	
Custody Seal No: 74501, 8198676, 898677		Cooler Temperature(s) °C and Other Remarks: 8.0°C, 2.2°C, 1.4°C IR-6			



Login Sample Receipt Checklist

Client: Southern Company

Job Number: 400-128811-1

SDG Number: Ash Pond

Login Number: 128811

List Number: 1

Creator: Siddoway, Benjamin

List Source: TestAmerica Pensacola

Question	Answer	Comment
Radioactivity wasn't checked or is \leq background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	True	745507, 898676, 898677
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	0.0°C, 2.2°C, 1.4°C IR-6
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 <math><6\text{mm}</math> (1/4").	N/A	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	



Certification Summary

Client: Southern Company
 Project/Site: CCR Plant Scherer

TestAmerica Job ID: 400-128811-1
 SDG: Ash Pond

Laboratory: TestAmerica Pensacola

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

Authority	Program	EPA Region	Certification ID	Expiration Date
Alabama	State Program	4	40150	06-30-17
Arizona	State Program	9	AZ0710	01-11-17
Arkansas DEQ	State Program	6	88-0689	09-01-17
California	ELAP	9	2510	03-31-18
Florida	NELAP	4	E81010	06-30-17
Georgia	State Program	4	N/A	06-30-17
Illinois	NELAP	5	200041	10-09-17
Iowa	State Program	7	367	08-01-18
Kansas	NELAP	7	E-10253	10-31-17
Kentucky (UST)	State Program	4	53	06-30-17
Kentucky (WW)	State Program	4	98030	12-31-16
Louisiana	NELAP	6	30976	06-30-17
Maryland	State Program	3	233	09-30-17
Massachusetts	State Program	1	M-FL094	06-30-17
Michigan	State Program	5	9912	05-06-17
New Jersey	NELAP	2	FL006	06-30-17
North Carolina (WW/SW)	State Program	4	314	12-31-16
Oklahoma	State Program	6	9810	08-31-17
Pennsylvania	NELAP	3	68-00467	01-31-17
Rhode Island	State Program	1	LAO00307	12-30-16
South Carolina	State Program	4	96026	06-30-16 *
Tennessee	State Program	4	TN02907	06-30-17
Texas	NELAP	6	T104704286-16-10	09-30-17
USDA	Federal		P330-16-00172	05-24-19
Virginia	NELAP	3	460166	06-14-17
Washington	State Program	10	C915	05-15-17
West Virginia DEP	State Program	3	136	06-30-17

* Certification renewal pending - certification considered valid.



TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

TestAmerica Laboratories, Inc.

TestAmerica Pensacola

3355 McLemore Drive

Pensacola, FL 32514

Tel: (850)474-1001

TestAmerica Job ID: 400-128811-2

TestAmerica Sample Delivery Group: Ash Pond

Client Project/Site: CCR Plant Scherer

For:

Southern Company

241 Ralph McGill Blvd SE

B10185

Atlanta, Georgia 30308

Attn: Joju Abraham



Authorized for release by:

11/29/2016 12:20:58 PM

Cheyenne Whitmire, Project Manager II

(850)471-6222

cheyenne.whitmire@testamericainc.com

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The test results in this report meet all 2003 NELAC and 2009 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.

1

2

3

4

5

6

7

8

9

10

11

12



Table of Contents

Cover Page	1
Table of Contents	2
Method Summary	3
Sample Summary	4
Client Sample Results	5
Definitions	15
Chronicle	16
QC Association	19
QC Sample Results	20
Chain of Custody	22
Receipt Checklists	23
Certification Summary	24

Method Summary

Client: Southern Company
Project/Site: CCR Plant Scherer

TestAmerica Job ID: 400-128811-2
SDG: Ash Pond

Method	Method Description	Protocol	Laboratory
9315	Radium-226 (GFPC)	SW846	TAL SL
9320	Radium-228 (GFPC)	SW846	TAL SL
Ra226_Ra228	Combined Radium-226 and Radium-228	TAL-STL	TAL SL

Protocol References:

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:

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

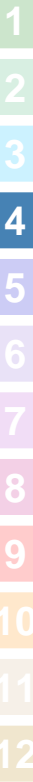


Sample Summary

Client: Southern Company
Project/Site: CCR Plant Scherer

TestAmerica Job ID: 400-128811-2
SDG: Ash Pond

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
400-128811-1	SGWC-12	Water	10/17/16 12:24	10/18/16 09:11
400-128811-2	SGWA-4	Water	10/17/16 12:33	10/18/16 09:11
400-128811-3	FB-1 (AP)	Water	10/17/16 12:45	10/18/16 09:11
400-128811-4	SGWC-8	Water	10/17/16 12:45	10/19/16 08:19
400-128811-5	EB-1 (AP)	Water	10/17/16 11:00	10/18/16 09:11
400-128811-6	SGWC-13	Water	10/17/16 14:20	10/18/16 09:11
400-128811-7	SGWC-11	Water	10/17/16 15:40	10/19/16 08:19
400-128811-8	SGWC-6	Water	10/17/16 15:46	10/18/16 09:11
400-128811-9	SGWC-14	Water	10/17/16 16:38	10/18/16 09:11
400-128811-10	SGWC-10	Water	10/17/16 14:10	10/19/16 08:19



Client Sample Results

Client: Southern Company
Project/Site: CCR Plant Scherer

TestAmerica Job ID: 400-128811-2
SDG: Ash Pond

Client Sample ID: SGWC-12

Lab Sample ID: 400-128811-1

Date Collected: 10/17/16 12:24

Matrix: Water

Date Received: 10/18/16 09:11

Method: 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.0332	U	0.128	0.128	1.00	0.232	pCi/L	10/21/16 10:35	11/17/16 09:57	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	89.5		40 - 110					10/21/16 10:35	11/17/16 09:57	1

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.283	U	0.230	0.231	1.00	0.363	pCi/L	10/21/16 11:13	11/16/16 18:33	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	89.5		40 - 110					10/21/16 11:13	11/16/16 18:33	1
Y Carrier	85.6		40 - 110					10/21/16 11:13	11/16/16 18:33	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	0.316	U	0.263	0.264	5.00	0.363	pCi/L		11/21/16 07:53	1

Client Sample Results

Client: Southern Company
Project/Site: CCR Plant Scherer

TestAmerica Job ID: 400-128811-2
SDG: Ash Pond

Client Sample ID: SGWA-4

Lab Sample ID: 400-128811-2

Date Collected: 10/17/16 12:33

Matrix: Water

Date Received: 10/18/16 09:11

Method: 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.0502	U	0.108	0.108	1.00	0.192	pCi/L	10/21/16 10:35	11/17/16 09:57	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	92.9		40 - 110					10/21/16 10:35	11/17/16 09:57	1

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.0641	U	0.196	0.196	1.00	0.343	pCi/L	10/21/16 11:13	11/16/16 18:34	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	92.9		40 - 110					10/21/16 11:13	11/16/16 18:34	1
Y Carrier	86.4		40 - 110					10/21/16 11:13	11/16/16 18:34	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	0.114	U	0.224	0.224	5.00	0.343	pCi/L		11/21/16 07:53	1

Client Sample Results

Client: Southern Company
Project/Site: CCR Plant Scherer

TestAmerica Job ID: 400-128811-2
SDG: Ash Pond

Client Sample ID: FB-1 (AP)

Lab Sample ID: 400-128811-3

Date Collected: 10/17/16 12:45

Matrix: Water

Date Received: 10/18/16 09:11

Method: 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.0334	U	0.124	0.124	1.00	0.226	pCi/L	10/21/16 10:35	11/17/16 09:57	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	95.4		40 - 110					10/21/16 10:35	11/17/16 09:57	1

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	-0.0482	U	0.205	0.205	1.00	0.377	pCi/L	10/21/16 11:13	11/16/16 18:34	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	95.4		40 - 110					10/21/16 11:13	11/16/16 18:34	1
Y Carrier	87.1		40 - 110					10/21/16 11:13	11/16/16 18:34	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	-0.0147	U	0.240	0.240	5.00	0.377	pCi/L		11/21/16 07:53	1

Client Sample Results

Client: Southern Company
Project/Site: CCR Plant Scherer

TestAmerica Job ID: 400-128811-2
SDG: Ash Pond

Client Sample ID: SGWC-8

Lab Sample ID: 400-128811-4

Date Collected: 10/17/16 12:45

Matrix: Water

Date Received: 10/19/16 08:19

Method: 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.559		0.194	0.200	1.00	0.224	pCi/L	10/21/16 10:35	11/17/16 09:57	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	88.0		40 - 110					10/21/16 10:35	11/17/16 09:57	1

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	1.52		0.351	0.377	1.00	0.419	pCi/L	10/21/16 11:13	11/16/16 18:35	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	88.0		40 - 110					10/21/16 11:13	11/16/16 18:35	1
Y Carrier	87.5		40 - 110					10/21/16 11:13	11/16/16 18:35	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	2.08		0.401	0.427	5.00	0.419	pCi/L		11/21/16 07:53	1

Client Sample Results

Client: Southern Company
Project/Site: CCR Plant Scherer

TestAmerica Job ID: 400-128811-2
SDG: Ash Pond

Client Sample ID: EB-1 (AP)

Lab Sample ID: 400-128811-5

Date Collected: 10/17/16 11:00

Matrix: Water

Date Received: 10/18/16 09:11

Method: 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.0341	U	0.135	0.135	1.00	0.248	pCi/L	10/21/16 10:35	11/17/16 09:57	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	92.9		40 - 110					10/21/16 10:35	11/17/16 09:57	1

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.318	U	0.233	0.235	1.00	0.361	pCi/L	10/21/16 11:13	11/16/16 18:35	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	92.9		40 - 110					10/21/16 11:13	11/16/16 18:35	1
Y Carrier	83.4		40 - 110					10/21/16 11:13	11/16/16 18:35	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	0.352	U	0.269	0.271	5.00	0.361	pCi/L		11/21/16 07:53	1

Client Sample Results

Client: Southern Company
Project/Site: CCR Plant Scherer

TestAmerica Job ID: 400-128811-2
SDG: Ash Pond

Client Sample ID: SGWC-13

Lab Sample ID: 400-128811-6

Date Collected: 10/17/16 14:20

Matrix: Water

Date Received: 10/18/16 09:11

Method: 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.0325	U	0.112	0.112	1.00	0.207	pCi/L	10/21/16 10:35	11/17/16 09:57	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	87.7		40 - 110					10/21/16 10:35	11/17/16 09:57	1

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.440		0.250	0.253	1.00	0.374	pCi/L	10/21/16 11:13	11/16/16 18:35	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	87.7		40 - 110					10/21/16 11:13	11/16/16 18:35	1
Y Carrier	88.2		40 - 110					10/21/16 11:13	11/16/16 18:35	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	0.472		0.274	0.277	5.00	0.374	pCi/L		11/21/16 07:53	1

Client Sample Results

Client: Southern Company
Project/Site: CCR Plant Scherer

TestAmerica Job ID: 400-128811-2
SDG: Ash Pond

Client Sample ID: SGWC-11

Lab Sample ID: 400-128811-7

Date Collected: 10/17/16 15:40

Matrix: Water

Date Received: 10/19/16 08:19

Method: 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.175	U	0.138	0.139	1.00	0.209	pCi/L	10/21/16 10:35	11/17/16 09:57	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	94.0		40 - 110					10/21/16 10:35	11/17/16 09:57	1

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.376		0.238	0.241	1.00	0.365	pCi/L	10/21/16 11:13	11/16/16 18:35	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	94.0		40 - 110					10/21/16 11:13	11/16/16 18:35	1
Y Carrier	88.6		40 - 110					10/21/16 11:13	11/16/16 18:35	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	0.551		0.275	0.278	5.00	0.365	pCi/L		11/21/16 07:53	1

Client Sample Results

Client: Southern Company
Project/Site: CCR Plant Scherer

TestAmerica Job ID: 400-128811-2
SDG: Ash Pond

Client Sample ID: SGWC-6

Lab Sample ID: 400-128811-8

Date Collected: 10/17/16 15:46

Matrix: Water

Date Received: 10/18/16 09:11

Method: 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.0488	U	0.126	0.126	1.00	0.225	pCi/L	10/21/16 10:35	11/17/16 09:57	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	88.3		40 - 110					10/21/16 10:35	11/17/16 09:57	1

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.259	U	0.249	0.250	1.00	0.403	pCi/L	10/21/16 11:13	11/16/16 18:35	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	88.3		40 - 110					10/21/16 11:13	11/16/16 18:35	1
Y Carrier	86.4		40 - 110					10/21/16 11:13	11/16/16 18:35	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	0.307	U	0.279	0.280	5.00	0.403	pCi/L		11/21/16 07:53	1

Client Sample Results

Client: Southern Company
Project/Site: CCR Plant Scherer

TestAmerica Job ID: 400-128811-2
SDG: Ash Pond

Client Sample ID: SGWC-14

Lab Sample ID: 400-128811-9

Date Collected: 10/17/16 16:38

Matrix: Water

Date Received: 10/18/16 09:11

Method: 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	-0.0296	U	0.110	0.110	1.00	0.222	pCi/L	10/21/16 10:35	11/17/16 09:57	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	89.7		40 - 110					10/21/16 10:35	11/17/16 09:57	1

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	-0.158	U	0.197	0.198	1.00	0.385	pCi/L	10/21/16 11:13	11/16/16 18:35	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	89.7		40 - 110					10/21/16 11:13	11/16/16 18:35	1
Y Carrier	88.2		40 - 110					10/21/16 11:13	11/16/16 18:35	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	-0.187	U	0.226	0.226	5.00	0.385	pCi/L		11/21/16 07:53	1

Client Sample Results

Client: Southern Company
Project/Site: CCR Plant Scherer

TestAmerica Job ID: 400-128811-2
SDG: Ash Pond

Client Sample ID: SGWC-10

Lab Sample ID: 400-128811-10

Date Collected: 10/17/16 14:10

Matrix: Water

Date Received: 10/19/16 08:19

Method: 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	0.113	0.113	1.00	0.199	pCi/L	10/21/16 12:49	11/17/16 09:58	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	94.6		40 - 110					10/21/16 12:49	11/17/16 09:58	1

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	-0.131	U	0.268	0.268	1.00	0.490	pCi/L	10/21/16 12:47	11/16/16 18:35	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	94.6		40 - 110					10/21/16 12:47	11/16/16 18:35	1
Y Carrier	87.9		40 - 110					10/21/16 12:47	11/16/16 18:35	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	-0.0725	U	0.291	0.291	5.00	0.490	pCi/L		11/21/16 07:53	1

Definitions/Glossary

Client: Southern Company
Project/Site: CCR Plant Scherer

TestAmerica Job ID: 400-128811-2
SDG: Ash Pond

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
CNF	Contains no Free Liquid
DER	Duplicate error ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision level concentration
MDA	Minimum detectable activity
EDL	Estimated Detection Limit
MDC	Minimum detectable concentration
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
NC	Not Calculated
ND	Not detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RER	Relative error ratio
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)

Lab Chronicle

Client: Southern Company
Project/Site: CCR Plant Scherer

TestAmerica Job ID: 400-128811-2
SDG: Ash Pond

Client Sample ID: SGWC-12

Date Collected: 10/17/16 12:24

Date Received: 10/18/16 09:11

Lab Sample ID: 400-128811-1

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			275517	10/21/16 10:35	AS	TAL SL
Total/NA	Analysis	9315		1	279774	11/17/16 09:57	RTM	TAL SL
Total/NA	Prep	PrecSep_0			275530	10/21/16 11:13	AS	TAL SL
Total/NA	Analysis	9320		1	279458	11/16/16 18:33	KLS	TAL SL
Total/NA	Analysis	Ra226_Ra228		1	280189	11/21/16 07:53	RTM	TAL SL

Client Sample ID: SGWA-4

Date Collected: 10/17/16 12:33

Date Received: 10/18/16 09:11

Lab Sample ID: 400-128811-2

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			275517	10/21/16 10:35	AS	TAL SL
Total/NA	Analysis	9315		1	279774	11/17/16 09:57	RTM	TAL SL
Total/NA	Prep	PrecSep_0			275530	10/21/16 11:13	AS	TAL SL
Total/NA	Analysis	9320		1	279458	11/16/16 18:34	KLS	TAL SL
Total/NA	Analysis	Ra226_Ra228		1	280189	11/21/16 07:53	RTM	TAL SL

Client Sample ID: FB-1 (AP)

Date Collected: 10/17/16 12:45

Date Received: 10/18/16 09:11

Lab Sample ID: 400-128811-3

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			275517	10/21/16 10:35	AS	TAL SL
Total/NA	Analysis	9315		1	279774	11/17/16 09:57	RTM	TAL SL
Total/NA	Prep	PrecSep_0			275530	10/21/16 11:13	AS	TAL SL
Total/NA	Analysis	9320		1	279458	11/16/16 18:34	KLS	TAL SL
Total/NA	Analysis	Ra226_Ra228		1	280189	11/21/16 07:53	RTM	TAL SL

Client Sample ID: SGWC-8

Date Collected: 10/17/16 12:45

Date Received: 10/19/16 08:19

Lab Sample ID: 400-128811-4

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			275517	10/21/16 10:35	AS	TAL SL
Total/NA	Analysis	9315		1	279774	11/17/16 09:57	RTM	TAL SL
Total/NA	Prep	PrecSep_0			275530	10/21/16 11:13	AS	TAL SL
Total/NA	Analysis	9320		1	279458	11/16/16 18:35	KLS	TAL SL
Total/NA	Analysis	Ra226_Ra228		1	280189	11/21/16 07:53	RTM	TAL SL

Lab Chronicle

Client: Southern Company
Project/Site: CCR Plant Scherer

TestAmerica Job ID: 400-128811-2
SDG: Ash Pond

Client Sample ID: EB-1 (AP)

Lab Sample ID: 400-128811-5

Date Collected: 10/17/16 11:00

Matrix: Water

Date Received: 10/18/16 09:11

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			275517	10/21/16 10:35	AS	TAL SL
Total/NA	Analysis	9315		1	279774	11/17/16 09:57	RTM	TAL SL
Total/NA	Prep	PrecSep_0			275530	10/21/16 11:13	AS	TAL SL
Total/NA	Analysis	9320		1	279458	11/16/16 18:35	KLS	TAL SL
Total/NA	Analysis	Ra226_Ra228		1	280189	11/21/16 07:53	RTM	TAL SL

Client Sample ID: SGWC-13

Lab Sample ID: 400-128811-6

Date Collected: 10/17/16 14:20

Matrix: Water

Date Received: 10/18/16 09:11

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			275517	10/21/16 10:35	AS	TAL SL
Total/NA	Analysis	9315		1	279774	11/17/16 09:57	RTM	TAL SL
Total/NA	Prep	PrecSep_0			275530	10/21/16 11:13	AS	TAL SL
Total/NA	Analysis	9320		1	279458	11/16/16 18:35	KLS	TAL SL
Total/NA	Analysis	Ra226_Ra228		1	280189	11/21/16 07:53	RTM	TAL SL

Client Sample ID: SGWC-11

Lab Sample ID: 400-128811-7

Date Collected: 10/17/16 15:40

Matrix: Water

Date Received: 10/19/16 08:19

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			275517	10/21/16 10:35	AS	TAL SL
Total/NA	Analysis	9315		1	279774	11/17/16 09:57	RTM	TAL SL
Total/NA	Prep	PrecSep_0			275530	10/21/16 11:13	AS	TAL SL
Total/NA	Analysis	9320		1	279458	11/16/16 18:35	KLS	TAL SL
Total/NA	Analysis	Ra226_Ra228		1	280189	11/21/16 07:53	RTM	TAL SL

Client Sample ID: SGWC-6

Lab Sample ID: 400-128811-8

Date Collected: 10/17/16 15:46

Matrix: Water

Date Received: 10/18/16 09:11

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			275517	10/21/16 10:35	AS	TAL SL
Total/NA	Analysis	9315		1	279774	11/17/16 09:57	RTM	TAL SL
Total/NA	Prep	PrecSep_0			275530	10/21/16 11:13	AS	TAL SL
Total/NA	Analysis	9320		1	279458	11/16/16 18:35	KLS	TAL SL
Total/NA	Analysis	Ra226_Ra228		1	280189	11/21/16 07:53	RTM	TAL SL

Lab Chronicle

Client: Southern Company
Project/Site: CCR Plant Scherer

TestAmerica Job ID: 400-128811-2
SDG: Ash Pond

Client Sample ID: SGWC-14

Date Collected: 10/17/16 16:38

Date Received: 10/18/16 09:11

Lab Sample ID: 400-128811-9

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			275517	10/21/16 10:35	AS	TAL SL
Total/NA	Analysis	9315		1	279774	11/17/16 09:57	RTM	TAL SL
Total/NA	Prep	PrecSep_0			275530	10/21/16 11:13	AS	TAL SL
Total/NA	Analysis	9320		1	279458	11/16/16 18:35	KLS	TAL SL
Total/NA	Analysis	Ra226_Ra228		1	280189	11/21/16 07:53	RTM	TAL SL

Client Sample ID: SGWC-10

Date Collected: 10/17/16 14:10

Date Received: 10/19/16 08:19

Lab Sample ID: 400-128811-10

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			275517	10/21/16 12:49	AS	TAL SL
Total/NA	Analysis	9315		1	279774	11/17/16 09:58	RTM	TAL SL
Total/NA	Prep	PrecSep_0			275530	10/21/16 12:47	AS	TAL SL
Total/NA	Analysis	9320		1	279458	11/16/16 18:35	KLS	TAL SL
Total/NA	Analysis	Ra226_Ra228		1	280189	11/21/16 07:53	RTM	TAL SL

Laboratory References:

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

QC Association Summary

Client: Southern Company
Project/Site: CCR Plant Scherer

TestAmerica Job ID: 400-128811-2
SDG: Ash Pond

Rad

Prep Batch: 275517

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-128811-1	SGWC-12	Total/NA	Water	PrecSep-21	
400-128811-2	SGWA-4	Total/NA	Water	PrecSep-21	
400-128811-3	FB-1 (AP)	Total/NA	Water	PrecSep-21	
400-128811-4	SGWC-8	Total/NA	Water	PrecSep-21	
400-128811-5	EB-1 (AP)	Total/NA	Water	PrecSep-21	
400-128811-6	SGWC-13	Total/NA	Water	PrecSep-21	
400-128811-7	SGWC-11	Total/NA	Water	PrecSep-21	
400-128811-8	SGWC-6	Total/NA	Water	PrecSep-21	
400-128811-9	SGWC-14	Total/NA	Water	PrecSep-21	
400-128811-10	SGWC-10	Total/NA	Water	PrecSep-21	
MB 160-275517/1-A	Method Blank	Total/NA	Water	PrecSep-21	
LCS 160-275517/2-A	Lab Control Sample	Total/NA	Water	PrecSep-21	
400-128811-1 MS	SGWC-12	Total/NA	Water	PrecSep-21	
400-128811-1 MSD	SGWC-12	Total/NA	Water	PrecSep-21	

Prep Batch: 275530

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-128811-1	SGWC-12	Total/NA	Water	PrecSep_0	
400-128811-2	SGWA-4	Total/NA	Water	PrecSep_0	
400-128811-3	FB-1 (AP)	Total/NA	Water	PrecSep_0	
400-128811-4	SGWC-8	Total/NA	Water	PrecSep_0	
400-128811-5	EB-1 (AP)	Total/NA	Water	PrecSep_0	
400-128811-6	SGWC-13	Total/NA	Water	PrecSep_0	
400-128811-7	SGWC-11	Total/NA	Water	PrecSep_0	
400-128811-8	SGWC-6	Total/NA	Water	PrecSep_0	
400-128811-9	SGWC-14	Total/NA	Water	PrecSep_0	
400-128811-10	SGWC-10	Total/NA	Water	PrecSep_0	
MB 160-275530/1-A	Method Blank	Total/NA	Water	PrecSep_0	
LCS 160-275530/2-A	Lab Control Sample	Total/NA	Water	PrecSep_0	
400-128811-1 MS	SGWC-12	Total/NA	Water	PrecSep_0	
400-128811-1 MSD	SGWC-12	Total/NA	Water	PrecSep_0	

QC Sample Results

Client: Southern Company
Project/Site: CCR Plant Scherer

TestAmerica Job ID: 400-128811-2
SDG: Ash Pond

Method: 9315 - Radium-226 (GFPC)

Lab Sample ID: MB 160-275517/1-A
Matrix: Water
Analysis Batch: 279770

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 275517

Analyte	MB MB		Count	Total	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
	Result	Qualifier	Uncert. (2σ+/-)	Uncert. (2σ+/-)						
Radium-226	-0.04094	U	0.107	0.107	1.00	0.219	pCi/L	10/21/16 10:35	11/17/16 09:42	1
Carrier	MB MB		Limits		Prepared	Analyzed	Dil Fac			
Ba Carrier	%Yield	Qualifier	Limits					10/21/16 10:35	11/17/16 09:42	1
	91.5		40 - 110							

Lab Sample ID: LCS 160-275517/2-A
Matrix: Water
Analysis Batch: 279770

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 275517

Analyte	Spike Added	LCS Result	LCS Qual	Total	RL	MDC	Unit	%Rec	%Rec. Limits
				Uncert. (2σ+/-)					
Radium-226	11.1	11.82		1.26	1.00	0.207	pCi/L	106	68 - 137
Carrier	LCS LCS		Limits		Prepared	Analyzed	Dil Fac		
Ba Carrier	%Yield	Qualifier	Limits					10/21/16 10:35	11/17/16 09:42
	100		40 - 110						

Lab Sample ID: 400-128811-1 MS
Matrix: Water
Analysis Batch: 279774

Client Sample ID: SGWC-12
Prep Type: Total/NA
Prep Batch: 275517

Analyte	Sample Sample		Spike Added	MS	MS	Total	RL	MDC	Unit	%Rec	%Rec. Limits
	Result	Qual		Result	Qual	Uncert. (2σ+/-)					
Radium-226	0.0332	U	11.1	13.03		1.39	1.00	0.208	pCi/L	117	75 - 138
Carrier	MS MS		Limits		Prepared	Analyzed	Dil Fac				
Ba Carrier	%Yield	Qualifier	Limits					10/21/16 10:35	11/17/16 09:42	1	
	91.5		40 - 110								

Lab Sample ID: 400-128811-1 MSD
Matrix: Water
Analysis Batch: 279774

Client Sample ID: SGWC-12
Prep Type: Total/NA
Prep Batch: 275517

Analyte	Sample Sample		Spike Added	MSD	MSD	Total	RL	MDC	Unit	%Rec	%Rec. Limits	RER	RER Limit
	Result	Qual		Result	Qual	Uncert. (2σ+/-)							
Radium-226	0.0332	U	11.1	13.07		1.40	1.00	0.236	pCi/L	118	75 - 138	0.01	1
Carrier	MSD MSD		Limits		Prepared	Analyzed	Dil Fac						
Ba Carrier	%Yield	Qualifier	Limits					10/21/16 10:35	11/17/16 09:42	1			
	89.5		40 - 110										

QC Sample Results

Client: Southern Company
Project/Site: CCR Plant Scherer

TestAmerica Job ID: 400-128811-2
SDG: Ash Pond

Method: 9320 - Radium-228 (GFPC)

Lab Sample ID: MB 160-275530/1-A
Matrix: Water
Analysis Batch: 279648

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 275530

Analyte	MB Result	MB Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.6668		0.327	0.333	1.00	0.491	pCi/L	10/21/16 11:13	11/16/16 18:25	1

Carrier	MB %Yield	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
Ba Carrier	91.5		40 - 110	10/21/16 11:13	11/16/16 18:25	1
Y Carrier	85.6		40 - 110	10/21/16 11:13	11/16/16 18:25	1

Lab Sample ID: LCS 160-275530/2-A
Matrix: Water
Analysis Batch: 279648

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 275530

Analyte	Spike Added	LCS Result	LCS Qual	Total Uncert. (2σ+/-)	RL	MDC	Unit	%Rec	%Rec. Limits
Radium-228	14.3	15.54		1.65	1.00	0.370	pCi/L	109	56 - 140

Carrier	LCS %Yield	LCS Qualifier	Limits
Ba Carrier	100		40 - 110
Y Carrier	85.2		40 - 110

Lab Sample ID: 400-128811-1 MS
Matrix: Water
Analysis Batch: 279458

Client Sample ID: SGWC-12
Prep Type: Total/NA
Prep Batch: 275530

Analyte	Sample Result	Sample Qual	Spike Added	MS Result	MS Qual	Total Uncert. (2σ+/-)	RL	MDC	Unit	%Rec	%Rec. Limits
Radium-228	0.283	U	14.3	14.96		1.62	1.00	0.426	pCi/L	105	45 - 150

Carrier	MS %Yield	MS Qualifier	Limits
Ba Carrier	91.5		40 - 110
Y Carrier	84.9		40 - 110


Lab Sample ID: 400-128811-1 MSD
Matrix: Water
Analysis Batch: 279458

Client Sample ID: SGWC-12
Prep Type: Total/NA
Prep Batch: 275530

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	0.283	U	14.3	15.79		1.69	1.00	0.385	pCi/L	111	45 - 150	0.25	1

Carrier	MSD %Yield	MSD Qualifier	Limits
Ba Carrier	89.5		40 - 110
Y Carrier	87.9		40 - 110

Chain of Custody Record

Client Information Client Contact: Joju Abraham Company: Southern Company Address: 241 Ralph McGill Blvd SE B10185 City: Atlanta State, Zip: GA, 30308 Phone: _____ Email: JAbraham@southernco.com Project Name: CCR - Scherer Site: Ash Pond		Lab PM: Whitmore, Cheyenne R E-Mail: cheyenne.whitmore@testamericainc.com Sampler: Ben Hodges Phone: 912-258-7457		Carrier Tracking No(s): _____ COC No: 400-57303-24790.5 Page: _____ Page 5 of 8 Job #: _____	
Due Date Requested: _____ TAT Requested (days): _____ PO #: GPC10624814 WO #: _____ Project #: 40007041 SSOW#: _____		Analysis Requested 2540C-TDS, 300_ORGFM_28D-Chloride,Fluoride,Sulfate 6020-SB,As,Ba,Be,Cd,Cr,Cu,Pb,LI,Mo,Se,Tl,7470A-Hg 9316_Ra226,9320_Ra228,Ra228Ra228_GFPc			
Sample Identification Sample ID: SGWC-12 SGWA-4 FB-1(AP) SGWC-8 EB-1(AP) SGWC-13 SGWC-11 SGWC-6 SGWC-14 SGWC-10		Sample Date: 10/17/16 Sample Time: 1224 1233 1245 1245 1100 1420 1540 1546 1638 1410		Sample Type (C=Comp, G=grab) Matrix (W=water, S=solid, O=waste/oil, etc.=Trace, A=Air) Preservation Code Field Filtered Sample (Yes or No)	
Possible Hazard Identification <input checked="" type="checkbox"/> Non-Hazard <input type="checkbox"/> Flammable <input type="checkbox"/> Skin Irritant <input type="checkbox"/> Poison B <input type="checkbox"/> Unknown <input type="checkbox"/> Radiobiological		Special Instructions/Note: 1 Extra Radium Level 4 DU Level 4 DU Level 4 DU  400-128811 COC			
Relinquished by: _____ Relinquished by: _____ Relinquished by: _____		Sample Disposal (A fee may be assessed if samples are retained longer than 1 month) <input type="checkbox"/> Return To Client <input checked="" type="checkbox"/> Disposal By Lab <input type="checkbox"/> Archive For _____ Months Special Instructions/QC Requirements:			
Relinquished by: _____ Relinquished by: _____ Relinquished by: _____		Date: _____ Date/Time: 10/17/16 1830 Date/Time: _____ Date/Time: _____ Date/Time: _____			
Custody Seal No: 74501, 8198676, 898677 Custody Seals Intact: Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>		Cooler Temperature(s) °C and Other Remarks: 0.0°C, 2.2°C, 1.4°C IR-6			



Login Sample Receipt Checklist

Client: Southern Company

Job Number: 400-128811-2

SDG Number: Ash Pond

Login Number: 128811

List Number: 1

Creator: Siddoway, Benjamin

List Source: TestAmerica Pensacola

Question	Answer	Comment
Radioactivity wasn't checked or is \leq background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	True	745507, 898676, 898677
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	0.0°C, 2.2°C, 1.4°C IR-6
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 <math><6\text{mm}</math> (1/4").	N/A	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	



Certification Summary

Client: Southern Company
Project/Site: CCR Plant Scherer

TestAmerica Job ID: 400-128811-2
SDG: Ash Pond

Laboratory: TestAmerica Pensacola

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

Authority	Program	EPA Region	Certification ID	Expiration Date
Alabama	State Program	4	40150	06-30-17
Arizona	State Program	9	AZ0710	01-11-17
Arkansas DEQ	State Program	6	88-0689	09-01-17
California	ELAP	9	2510	03-31-18
Florida	NELAP	4	E81010	06-30-17
Georgia	State Program	4	N/A	06-30-17
Illinois	NELAP	5	200041	10-09-17
Iowa	State Program	7	367	08-01-18
Kansas	NELAP	7	E-10253	10-31-17
Kentucky (UST)	State Program	4	53	06-30-17
Kentucky (WW)	State Program	4	98030	12-31-16
Louisiana	NELAP	6	30976	06-30-17
Louisiana (DW)	NELAP Secondary AB	6	LA170005	12-31-17
Maryland	State Program	3	233	09-30-17
Massachusetts	State Program	1	M-FL094	06-30-17
Michigan	State Program	5	9912	05-06-17
New Jersey	NELAP	2	FL006	06-30-17
North Carolina (WW/SW)	State Program	4	314	12-31-16
Oklahoma	State Program	6	9810	08-31-17
Pennsylvania	NELAP	3	68-00467	01-31-17
Rhode Island	State Program	1	LAO00307	12-30-16
South Carolina	State Program	4	96026	06-30-17
Tennessee	State Program	4	TN02907	06-30-17
Texas	NELAP	6	T104704286-16-10	09-30-17
USDA	Federal		P330-16-00172	05-24-19
Virginia	NELAP	3	460166	06-14-17
Washington	State Program	10	C915	05-15-17
West Virginia DEP	State Program	3	136	06-30-17

Laboratory: TestAmerica St. Louis

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

Authority	Program	EPA Region	Certification ID	Expiration Date
Alaska	State Program	10	MO00054	06-30-17
California	State Program	9	2886	03-31-18
Connecticut	State Program	1	PH-0241	03-31-17
Florida	NELAP	4	E87689	06-30-17
Illinois	NELAP	5	003757	11-30-16 *
Iowa	State Program	7	373	12-01-16 *
Kansas	NELAP	7	E-10236	10-31-17
Kentucky (DW)	State Program	4	90125	12-31-16
L-A-B	DoD ELAP		L2305	04-06-19
Louisiana	NELAP	6	04080	06-30-17
Louisiana (DW)	NELAP	6	LA160008	12-31-16 *
Maryland	State Program	3	310	09-30-17
Missouri	State Program	7	780	06-30-17
Nevada	State Program	9	MO000542016-1	07-31-17
New Jersey	NELAP	2	MO002	06-30-17
New York	NELAP	2	11616	03-31-17
North Dakota	State Program	8	R207	06-30-17

* Certification renewal pending - certification considered valid.

Certification Summary

Client: Southern Company
Project/Site: CCR Plant Scherer

TestAmerica Job ID: 400-128811-2
SDG: Ash Pond

Laboratory: TestAmerica St. Louis (Continued)

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

Authority	Program	EPA Region	Certification ID	Expiration Date
NRC	NRC		24-24817-01	12-31-22
Oklahoma	State Program	6	9997	08-31-17
Pennsylvania	NELAP	3	68-00540	02-28-17 *
South Carolina	State Program	4	85002001	06-30-17
Texas	NELAP	6	T104704193-16-10	07-31-17
US Fish & Wildlife	Federal		LE058448-0	10-31-17
USDA	Federal		P330-14-0016	01-09-17
Utah	NELAP	8	MO000542016-8	07-31-17
Virginia	NELAP	3	460230	06-14-17
Washington	State Program	10	C592	08-30-17
West Virginia DEP	State Program	3	381	08-31-17

* Certification renewal pending - certification considered valid.

TestAmerica Pensacola

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

TestAmerica Laboratories, Inc.

TestAmerica Pensacola

3355 McLemore Drive

Pensacola, FL 32514

Tel: (850)474-1001

TestAmerica Job ID: 400-128868-1

TestAmerica Sample Delivery Group: Ash Pond

Client Project/Site: CCR Plant Scherer

For:

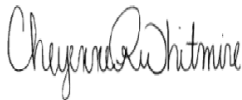
Southern Company

241 Ralph McGill Blvd SE

B10185

Atlanta, Georgia 30308

Attn: Joju Abraham



Authorized for release by:

11/14/2016 9:04:38 AM

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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.

1

2

3

4

5

6

7

8

9

10

11

12

13

14



Table of Contents

Cover Page	1
Table of Contents	2
Case Narrative	3
Detection Summary	4
Method Summary	8
Sample Summary	9
Client Sample Results	10
Definitions	24
Chronicle	25
QC Association	30
QC Sample Results	34
Chain of Custody	40
Receipt Checklists	41
Certification Summary	42

Case Narrative

Client: Southern Company
Project/Site: CCR Plant Scherer

TestAmerica Job ID: 400-128868-1
SDG: Ash Pond

Job ID: 400-128868-1

Laboratory: TestAmerica Pensacola

Narrative

Job Narrative 400-128868-1

HPLC/IC

Method(s) 300.0: The following samples were diluted to bring the concentration of target analytes within the calibration range: SGWC-21 (400-128868-4), FD-3 (AP) (400-128868-6), SGWC-20 (400-128868-9), SGWC-23 (400-128868-10), SGWC-9 (400-128868-11), SGWC-19 (400-128868-12) and SGWC-22 (400-128868-13). Elevated reporting limits (RLs) are provided.

Metals

Method(s) 6020: The following samples were diluted to bring the concentration of target analytes within the calibration range: SGWC-15 (400-128868-2), SGWC-21 (400-128868-4), FD-3 (AP) (400-128868-6), SGWC-20 (400-128868-9), SGWC-9 (400-128868-11) and SGWC-19 (400-128868-12). Elevated reporting limits (RLs) are provided.

Method(s) 6020: The post digestion spike % recovery for Thallium associated with batch 328746 was outside of control limits.



Detection Summary

Client: Southern Company
Project/Site: CCR Plant Scherer

TestAmerica Job ID: 400-128868-1
SDG: Ash Pond

Client Sample ID: SGWC-7

Lab Sample ID: 400-128868-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chloride	5.9		1.0	0.89	mg/L	1		300.0	Total/NA
Fluoride	0.24		0.20	0.082	mg/L	1		300.0	Total/NA
Sulfate	17		1.0	0.70	mg/L	1		300.0	Total/NA
Barium	0.29		0.0025	0.00049	mg/L	5		6020	Total Recoverable
Boron	0.039	J	0.050	0.021	mg/L	5		6020	Total Recoverable
Calcium	24		0.25	0.13	mg/L	5		6020	Total Recoverable
Cobalt	0.0099		0.0025	0.00040	mg/L	5		6020	Total Recoverable
Lithium	0.0036	J	0.0050	0.0032	mg/L	5		6020	Total Recoverable
Molybdenum	0.0012	J	0.015	0.00085	mg/L	5		6020	Total Recoverable
Total Dissolved Solids	210		5.0	3.4	mg/L	1		SM 2540C	Total/NA

Client Sample ID: SGWC-15

Lab Sample ID: 400-128868-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chloride	9.4		1.0	0.89	mg/L	1		300.0	Total/NA
Fluoride	0.12	J	0.20	0.082	mg/L	1		300.0	Total/NA
Sulfate	190		5.0	3.5	mg/L	5		300.0	Total/NA
Arsenic	0.0019		0.0013	0.00046	mg/L	5		6020	Total Recoverable
Barium	0.041		0.0025	0.00049	mg/L	5		6020	Total Recoverable
Calcium	16		0.25	0.13	mg/L	5		6020	Total Recoverable
Chromium	0.033		0.0025	0.0011	mg/L	5		6020	Total Recoverable
Cobalt	0.28		0.0025	0.00040	mg/L	5		6020	Total Recoverable
Selenium	0.0013		0.0013	0.00024	mg/L	5		6020	Total Recoverable
Boron - DL	1.9		0.50	0.21	mg/L	50		6020	Total Recoverable
Mercury	0.00012	J	0.00020	0.000070	mg/L	1		7470A	Total/NA
Total Dissolved Solids	320		5.0	3.4	mg/L	1		SM 2540C	Total/NA

Client Sample ID: EB-2 (AP)

Lab Sample ID: 400-128868-3

No Detections.

Client Sample ID: SGWC-21

Lab Sample ID: 400-128868-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chloride	7.1		1.0	0.89	mg/L	1		300.0	Total/NA
Sulfate	70		5.0	3.5	mg/L	5		300.0	Total/NA
Barium	0.093		0.0025	0.00049	mg/L	5		6020	Total Recoverable
Calcium	30		0.25	0.13	mg/L	5		6020	Total Recoverable
Boron - DL	1.7		0.50	0.21	mg/L	50		6020	Total Recoverable

This Detection Summary does not include radiochemical test results.

TestAmerica Pensacola

Detection Summary

Client: Southern Company
Project/Site: CCR Plant Scherer

TestAmerica Job ID: 400-128868-1
SDG: Ash Pond

Client Sample ID: SGWC-21 (Continued)

Lab Sample ID: 400-128868-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Total Dissolved Solids	300		5.0	3.4	mg/L	1		SM 2540C	Total/NA

Client Sample ID: EB-3 (AP)

Lab Sample ID: 400-128868-5

No Detections.

Client Sample ID: FD-3 (AP)

Lab Sample ID: 400-128868-6

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chloride	7.7		1.0	0.89	mg/L	1		300.0	Total/NA
Sulfate	77		5.0	3.5	mg/L	5		300.0	Total/NA
Barium	0.091		0.0025	0.00049	mg/L	5		6020	Total Recoverable
Calcium	30		0.25	0.13	mg/L	5		6020	Total Recoverable
Boron - DL	1.6		0.50	0.21	mg/L	50		6020	Total Recoverable
Total Dissolved Solids	270		5.0	3.4	mg/L	1		SM 2540C	Total/NA

Client Sample ID: SGWC-16

Lab Sample ID: 400-128868-7

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chloride	8.0		1.0	0.89	mg/L	1		300.0	Total/NA
Sulfate	15		1.0	0.70	mg/L	1		300.0	Total/NA
Barium	0.017		0.0025	0.00049	mg/L	5		6020	Total Recoverable
Boron	0.55		0.050	0.021	mg/L	5		6020	Total Recoverable
Calcium	0.75		0.25	0.13	mg/L	5		6020	Total Recoverable
Chromium	0.0088		0.0025	0.0011	mg/L	5		6020	Total Recoverable
Cobalt	0.0034		0.0025	0.00040	mg/L	5		6020	Total Recoverable
Total Dissolved Solids	60		5.0	3.4	mg/L	1		SM 2540C	Total/NA

Client Sample ID: FD-2 (AP)

Lab Sample ID: 400-128868-8

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chloride	8.0		1.0	0.89	mg/L	1		300.0	Total/NA
Sulfate	15		1.0	0.70	mg/L	1		300.0	Total/NA
Barium	0.017		0.0025	0.00049	mg/L	5		6020	Total Recoverable
Boron	0.56		0.050	0.021	mg/L	5		6020	Total Recoverable
Calcium	0.70		0.25	0.13	mg/L	5		6020	Total Recoverable
Chromium	0.0083		0.0025	0.0011	mg/L	5		6020	Total Recoverable
Cobalt	0.0032		0.0025	0.00040	mg/L	5		6020	Total Recoverable
Selenium	0.00030	J	0.0013	0.00024	mg/L	5		6020	Total Recoverable
Total Dissolved Solids	50		5.0	3.4	mg/L	1		SM 2540C	Total/NA

This Detection Summary does not include radiochemical test results.

TestAmerica Pensacola

Detection Summary

Client: Southern Company
Project/Site: CCR Plant Scherer

TestAmerica Job ID: 400-128868-1
SDG: Ash Pond

Client Sample ID: SGWC-20

Lab Sample ID: 400-128868-9

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chloride	10		1.0	0.89	mg/L	1		300.0	Total/NA
Fluoride	0.26		0.20	0.082	mg/L	1		300.0	Total/NA
Sulfate	240		10	7.0	mg/L	10		300.0	Total/NA
Arsenic	0.00085	J	0.0013	0.00046	mg/L	5		6020	Total Recoverable
Barium	0.039		0.0025	0.00049	mg/L	5		6020	Total Recoverable
Beryllium	0.00075	J	0.0025	0.00034	mg/L	5		6020	Total Recoverable
Calcium	14		0.25	0.13	mg/L	5		6020	Total Recoverable
Cobalt	0.26		0.0025	0.00040	mg/L	5		6020	Total Recoverable
Lithium	0.0038	J	0.0050	0.0032	mg/L	5		6020	Total Recoverable
Thallium	0.00016	J	0.00050	0.000085	mg/L	5		6020	Total Recoverable
Boron - DL	2.5		0.50	0.21	mg/L	50		6020	Total Recoverable
Total Dissolved Solids	200		5.0	3.4	mg/L	1		SM 2540C	Total/NA

Client Sample ID: SGWC-23

Lab Sample ID: 400-128868-10

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chloride	9.6		1.0	0.89	mg/L	1		300.0	Total/NA
Sulfate	130		5.0	3.5	mg/L	5		300.0	Total/NA
Barium	0.093		0.0025	0.00049	mg/L	5		6020	Total Recoverable
Boron	0.68		0.050	0.021	mg/L	5		6020	Total Recoverable
Calcium	32		0.25	0.13	mg/L	5		6020	Total Recoverable
Lithium	0.0032	J	0.0050	0.0032	mg/L	5		6020	Total Recoverable
Total Dissolved Solids	270		5.0	3.4	mg/L	1		SM 2540C	Total/NA

Client Sample ID: SGWC-9

Lab Sample ID: 400-128868-11

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chloride	9.4		1.0	0.89	mg/L	1		300.0	Total/NA
Sulfate	280		10	7.0	mg/L	10		300.0	Total/NA
Arsenic	0.00074	J	0.0013	0.00046	mg/L	5		6020	Total Recoverable
Barium	0.049		0.0025	0.00049	mg/L	5		6020	Total Recoverable
Calcium	53		0.25	0.13	mg/L	5		6020	Total Recoverable
Cobalt	0.017		0.0025	0.00040	mg/L	5		6020	Total Recoverable
Molybdenum	0.0014	J	0.015	0.00085	mg/L	5		6020	Total Recoverable
Boron - DL	2.4		0.50	0.21	mg/L	50		6020	Total Recoverable
Total Dissolved Solids	490		5.0	3.4	mg/L	1		SM 2540C	Total/NA

This Detection Summary does not include radiochemical test results.

TestAmerica Pensacola

Detection Summary

Client: Southern Company
Project/Site: CCR Plant Scherer

TestAmerica Job ID: 400-128868-1
SDG: Ash Pond

Client Sample ID: SGWC-19

Lab Sample ID: 400-128868-12

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chloride	7.7		1.0	0.89	mg/L	1		300.0	Total/NA
Sulfate	210		10	7.0	mg/L	10		300.0	Total/NA
Barium	0.042		0.0025	0.00049	mg/L	5		6020	Total Recoverable
Calcium	36		0.25	0.13	mg/L	5		6020	Total Recoverable
Chromium	0.013		0.0025	0.0011	mg/L	5		6020	Total Recoverable
Cobalt	0.00095	J	0.0025	0.00040	mg/L	5		6020	Total Recoverable
Boron - DL	2.1		0.50	0.21	mg/L	50		6020	Total Recoverable
Total Dissolved Solids	340		5.0	3.4	mg/L	1		SM 2540C	Total/NA

Client Sample ID: SGWC-22

Lab Sample ID: 400-128868-13

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chloride	10		1.0	0.89	mg/L	1		300.0	Total/NA
Sulfate	83		5.0	3.5	mg/L	5		300.0	Total/NA
Barium	0.096		0.0025	0.00049	mg/L	5		6020	Total Recoverable
Boron	0.41		0.050	0.021	mg/L	5		6020	Total Recoverable
Calcium	23		0.25	0.13	mg/L	5		6020	Total Recoverable
Cobalt	0.0043		0.0025	0.00040	mg/L	5		6020	Total Recoverable
Total Dissolved Solids	190		5.0	3.4	mg/L	1		SM 2540C	Total/NA

Client Sample ID: FB-2 (AP)

Lab Sample ID: 400-128868-14

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Boron	0.023	J	0.050	0.021	mg/L	5		6020	Total Recoverable

This Detection Summary does not include radiochemical test results.

TestAmerica Pensacola

Method Summary

Client: Southern Company
Project/Site: CCR Plant Scherer

TestAmerica Job ID: 400-128868-1
SDG: Ash Pond

Method	Method Description	Protocol	Laboratory
300.0	Anions, Ion Chromatography	MCAWW	TAL PEN
6020	Metals (ICP/MS)	SW846	TAL PEN
7470A	Mercury (CVAA)	SW846	TAL PEN
SM 2540C	Solids, Total Dissolved (TDS)	SM	TAL PEN

Protocol References:

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:

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

Sample Summary

Client: Southern Company
Project/Site: CCR Plant Scherer

TestAmerica Job ID: 400-128868-1
SDG: Ash Pond

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
400-128868-1	SGWC-7	Water	10/18/16 10:13	10/19/16 08:19
400-128868-2	SGWC-15	Water	10/18/16 10:15	10/19/16 08:19
400-128868-3	EB-2 (AP)	Water	10/18/16 08:07	10/19/16 08:19
400-128868-4	SGWC-21	Water	10/18/16 10:25	10/19/16 08:19
400-128868-5	EB-3 (AP)	Water	10/18/16 08:17	10/19/16 08:19
400-128868-6	FD-3 (AP)	Water	10/18/16 00:00	10/19/16 08:19
400-128868-7	SGWC-16	Water	10/18/16 11:50	10/19/16 08:19
400-128868-8	FD-2 (AP)	Water	10/18/16 00:00	10/19/16 08:19
400-128868-9	SGWC-20	Water	10/18/16 12:55	10/19/16 08:19
400-128868-10	SGWC-23	Water	10/18/16 13:23	10/19/16 08:19
400-128868-11	SGWC-9	Water	10/18/16 15:15	10/19/16 08:19
400-128868-12	SGWC-19	Water	10/18/16 14:05	10/19/16 08:19
400-128868-13	SGWC-22	Water	10/18/16 16:41	10/19/16 08:19
400-128868-14	FB-2 (AP)	Water	10/18/16 12:56	10/19/16 08:19

Client Sample Results

Client: Southern Company
Project/Site: CCR Plant Scherer

TestAmerica Job ID: 400-128868-1
SDG: Ash Pond

Client Sample ID: SGWC-7

Lab Sample ID: 400-128868-1

Date Collected: 10/18/16 10:13

Matrix: Water

Date Received: 10/19/16 08:19

Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	5.9		1.0	0.89	mg/L			11/01/16 05:31	1
Fluoride	0.24		0.20	0.082	mg/L			11/01/16 05:31	1
Sulfate	17		1.0	0.70	mg/L			11/01/16 05:31	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0010		0.0025	0.0010	mg/L		10/25/16 09:00	10/28/16 19:05	5
Arsenic	<0.00046		0.0013	0.00046	mg/L		10/25/16 09:00	10/28/16 19:05	5
Barium	0.29		0.0025	0.00049	mg/L		10/25/16 09:00	10/28/16 19:05	5
Beryllium	<0.00034		0.0025	0.00034	mg/L		10/25/16 09:00	10/28/16 19:05	5
Boron	0.039	J	0.050	0.021	mg/L		10/25/16 09:00	10/28/16 19:05	5
Cadmium	<0.00034		0.0025	0.00034	mg/L		10/25/16 09:00	10/28/16 19:05	5
Calcium	24		0.25	0.13	mg/L		10/25/16 09:00	10/28/16 19:05	5
Chromium	<0.0011		0.0025	0.0011	mg/L		10/25/16 09:00	10/28/16 19:05	5
Cobalt	0.0099		0.0025	0.00040	mg/L		10/25/16 09:00	10/28/16 19:05	5
Lead	<0.00035		0.0013	0.00035	mg/L		10/25/16 09:00	10/28/16 19:05	5
Lithium	0.0036	J	0.0050	0.0032	mg/L		10/25/16 09:00	10/28/16 19:05	5
Molybdenum	0.0012	J	0.015	0.00085	mg/L		10/25/16 09:00	10/28/16 19:05	5
Selenium	<0.00024		0.0013	0.00024	mg/L		10/25/16 09:00	10/28/16 19:05	5
Thallium	<0.000085		0.00050	0.000085	mg/L		10/25/16 09:00	10/28/16 19:05	5

Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.000070		0.00020	0.000070	mg/L		10/20/16 09:02	10/21/16 12:12	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	210		5.0	3.4	mg/L			10/22/16 17:03	1

Client Sample Results

Client: Southern Company
Project/Site: CCR Plant Scherer

TestAmerica Job ID: 400-128868-1
SDG: Ash Pond

Client Sample ID: SGWC-15

Date Collected: 10/18/16 10:15

Date Received: 10/19/16 08:19

Lab Sample ID: 400-128868-2

Matrix: Water

Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	9.4		1.0	0.89	mg/L			11/01/16 06:17	1
Fluoride	0.12	J	0.20	0.082	mg/L			11/01/16 06:17	1
Sulfate	190		5.0	3.5	mg/L			11/02/16 11:53	5

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0010		0.0025	0.0010	mg/L		10/25/16 09:00	10/28/16 19:10	5
Arsenic	0.0019		0.0013	0.00046	mg/L		10/25/16 09:00	10/28/16 19:10	5
Barium	0.041		0.0025	0.00049	mg/L		10/25/16 09:00	10/28/16 19:10	5
Beryllium	<0.00034		0.0025	0.00034	mg/L		10/25/16 09:00	10/28/16 19:10	5
Cadmium	<0.00034		0.0025	0.00034	mg/L		10/25/16 09:00	10/28/16 19:10	5
Calcium	16		0.25	0.13	mg/L		10/25/16 09:00	10/28/16 19:10	5
Chromium	0.033		0.0025	0.0011	mg/L		10/25/16 09:00	10/28/16 19:10	5
Cobalt	0.28		0.0025	0.00040	mg/L		10/25/16 09:00	10/28/16 19:10	5
Lead	<0.00035		0.0013	0.00035	mg/L		10/25/16 09:00	10/28/16 19:10	5
Lithium	<0.0032		0.0050	0.0032	mg/L		10/25/16 09:00	10/28/16 19:10	5
Molybdenum	<0.00085		0.015	0.00085	mg/L		10/25/16 09:00	10/28/16 19:10	5
Selenium	0.0013		0.0013	0.00024	mg/L		10/25/16 09:00	10/28/16 19:10	5
Thallium	<0.000085		0.00050	0.000085	mg/L		10/25/16 09:00	10/28/16 19:10	5

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Boron	1.9		0.50	0.21	mg/L		10/25/16 09:00	10/31/16 14:01	50

Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.00012	J	0.00020	0.000070	mg/L		10/20/16 09:02	10/21/16 12:13	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	320		5.0	3.4	mg/L			10/22/16 17:03	1

Client Sample Results

Client: Southern Company
Project/Site: CCR Plant Scherer

TestAmerica Job ID: 400-128868-1
SDG: Ash Pond

Client Sample ID: EB-2 (AP)

Date Collected: 10/18/16 08:07

Date Received: 10/19/16 08:19

Lab Sample ID: 400-128868-3

Matrix: Water

Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<0.89		1.0	0.89	mg/L			11/01/16 06:40	1
Fluoride	<0.082		0.20	0.082	mg/L			11/01/16 06:40	1
Sulfate	<0.70		1.0	0.70	mg/L			11/01/16 06:40	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0010		0.0025	0.0010	mg/L		10/25/16 09:00	10/28/16 19:14	5
Arsenic	<0.00046		0.0013	0.00046	mg/L		10/25/16 09:00	10/28/16 19:14	5
Barium	<0.00049		0.0025	0.00049	mg/L		10/25/16 09:00	10/28/16 19:14	5
Beryllium	<0.00034		0.0025	0.00034	mg/L		10/25/16 09:00	10/28/16 19:14	5
Boron	<0.021		0.050	0.021	mg/L		10/25/16 09:00	10/28/16 19:14	5
Cadmium	<0.00034		0.0025	0.00034	mg/L		10/25/16 09:00	10/28/16 19:14	5
Calcium	<0.13		0.25	0.13	mg/L		10/25/16 09:00	10/28/16 19:14	5
Chromium	<0.0011		0.0025	0.0011	mg/L		10/25/16 09:00	10/28/16 19:14	5
Cobalt	<0.00040		0.0025	0.00040	mg/L		10/25/16 09:00	10/28/16 19:14	5
Lead	<0.00035		0.0013	0.00035	mg/L		10/25/16 09:00	10/28/16 19:14	5
Lithium	<0.0032		0.0050	0.0032	mg/L		10/25/16 09:00	10/28/16 19:14	5
Molybdenum	<0.00085		0.015	0.00085	mg/L		10/25/16 09:00	10/28/16 19:14	5
Selenium	<0.00024		0.0013	0.00024	mg/L		10/25/16 09:00	10/28/16 19:14	5
Thallium	<0.000085		0.00050	0.000085	mg/L		10/25/16 09:00	10/28/16 19:14	5

Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.000070		0.00020	0.000070	mg/L		10/20/16 09:02	10/21/16 12:21	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	<3.4		5.0	3.4	mg/L			10/22/16 17:03	1

Client Sample Results

Client: Southern Company
Project/Site: CCR Plant Scherer

TestAmerica Job ID: 400-128868-1
SDG: Ash Pond

Client Sample ID: SGWC-21

Date Collected: 10/18/16 10:25

Date Received: 10/19/16 08:19

Lab Sample ID: 400-128868-4

Matrix: Water

Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	7.1		1.0	0.89	mg/L			11/01/16 07:02	1
Fluoride	<0.082		0.20	0.082	mg/L			11/01/16 07:02	1
Sulfate	70		5.0	3.5	mg/L			11/02/16 13:01	5

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0010		0.0025	0.0010	mg/L		10/25/16 09:00	10/28/16 19:41	5
Arsenic	<0.00046		0.0013	0.00046	mg/L		10/25/16 09:00	10/28/16 19:41	5
Barium	0.093		0.0025	0.00049	mg/L		10/25/16 09:00	10/28/16 19:41	5
Beryllium	<0.00034		0.0025	0.00034	mg/L		10/25/16 09:00	10/28/16 19:41	5
Cadmium	<0.00034		0.0025	0.00034	mg/L		10/25/16 09:00	10/28/16 19:41	5
Calcium	30		0.25	0.13	mg/L		10/25/16 09:00	10/28/16 19:41	5
Chromium	<0.0011		0.0025	0.0011	mg/L		10/25/16 09:00	10/28/16 19:41	5
Cobalt	<0.00040		0.0025	0.00040	mg/L		10/25/16 09:00	10/28/16 19:41	5
Lead	<0.00035		0.0013	0.00035	mg/L		10/25/16 09:00	10/28/16 19:41	5
Lithium	<0.0032		0.0050	0.0032	mg/L		10/25/16 09:00	10/28/16 19:41	5
Molybdenum	<0.00085		0.015	0.00085	mg/L		10/25/16 09:00	10/28/16 19:41	5
Selenium	<0.00024		0.0013	0.00024	mg/L		10/25/16 09:00	10/28/16 19:41	5
Thallium	<0.000085		0.00050	0.000085	mg/L		10/25/16 09:00	10/28/16 19:41	5

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Boron	1.7		0.50	0.21	mg/L		10/25/16 09:00	10/31/16 14:06	50

Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.000070		0.00020	0.000070	mg/L		10/20/16 09:02	10/21/16 12:22	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	300		5.0	3.4	mg/L			10/22/16 17:03	1

Client Sample Results

Client: Southern Company
Project/Site: CCR Plant Scherer

TestAmerica Job ID: 400-128868-1
SDG: Ash Pond

Client Sample ID: EB-3 (AP)

Date Collected: 10/18/16 08:17

Date Received: 10/19/16 08:19

Lab Sample ID: 400-128868-5

Matrix: Water

Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<0.89		1.0	0.89	mg/L			11/01/16 07:25	1
Fluoride	<0.082		0.20	0.082	mg/L			11/01/16 07:25	1
Sulfate	<0.70		1.0	0.70	mg/L			11/01/16 07:25	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0010		0.0025	0.0010	mg/L		10/25/16 09:00	10/28/16 19:46	5
Arsenic	<0.00046		0.0013	0.00046	mg/L		10/25/16 09:00	10/28/16 19:46	5
Barium	<0.00049		0.0025	0.00049	mg/L		10/25/16 09:00	10/28/16 19:46	5
Beryllium	<0.00034		0.0025	0.00034	mg/L		10/25/16 09:00	10/28/16 19:46	5
Boron	<0.021		0.050	0.021	mg/L		10/25/16 09:00	10/28/16 19:46	5
Cadmium	<0.00034		0.0025	0.00034	mg/L		10/25/16 09:00	10/28/16 19:46	5
Calcium	<0.13		0.25	0.13	mg/L		10/25/16 09:00	10/28/16 19:46	5
Chromium	<0.0011		0.0025	0.0011	mg/L		10/25/16 09:00	10/28/16 19:46	5
Cobalt	<0.00040		0.0025	0.00040	mg/L		10/25/16 09:00	10/28/16 19:46	5
Lead	<0.00035		0.0013	0.00035	mg/L		10/25/16 09:00	10/28/16 19:46	5
Lithium	<0.0032		0.0050	0.0032	mg/L		10/25/16 09:00	10/28/16 19:46	5
Molybdenum	<0.00085		0.015	0.00085	mg/L		10/25/16 09:00	10/28/16 19:46	5
Selenium	<0.00024		0.0013	0.00024	mg/L		10/25/16 09:00	10/28/16 19:46	5
Thallium	<0.000085		0.00050	0.000085	mg/L		10/25/16 09:00	10/28/16 19:46	5

Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.000070		0.00020	0.000070	mg/L		10/20/16 09:02	10/21/16 12:23	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	<3.4		5.0	3.4	mg/L			10/22/16 17:03	1

Client Sample Results

Client: Southern Company
Project/Site: CCR Plant Scherer

TestAmerica Job ID: 400-128868-1
SDG: Ash Pond

Client Sample ID: FD-3 (AP)

Date Collected: 10/18/16 00:00

Date Received: 10/19/16 08:19

Lab Sample ID: 400-128868-6

Matrix: Water

Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	7.7		1.0	0.89	mg/L			11/01/16 07:48	1
Fluoride	<0.082		0.20	0.082	mg/L			11/01/16 07:48	1
Sulfate	77		5.0	3.5	mg/L			11/02/16 13:24	5

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0010		0.0025	0.0010	mg/L		10/25/16 09:00	10/28/16 19:50	5
Arsenic	<0.00046		0.0013	0.00046	mg/L		10/25/16 09:00	10/28/16 19:50	5
Barium	0.091		0.0025	0.00049	mg/L		10/25/16 09:00	10/28/16 19:50	5
Beryllium	<0.00034		0.0025	0.00034	mg/L		10/25/16 09:00	10/28/16 19:50	5
Cadmium	<0.00034		0.0025	0.00034	mg/L		10/25/16 09:00	10/28/16 19:50	5
Calcium	30		0.25	0.13	mg/L		10/25/16 09:00	10/28/16 19:50	5
Chromium	<0.0011		0.0025	0.0011	mg/L		10/25/16 09:00	10/28/16 19:50	5
Cobalt	<0.00040		0.0025	0.00040	mg/L		10/25/16 09:00	10/28/16 19:50	5
Lead	<0.00035		0.0013	0.00035	mg/L		10/25/16 09:00	10/28/16 19:50	5
Lithium	<0.0032		0.0050	0.0032	mg/L		10/25/16 09:00	10/28/16 19:50	5
Molybdenum	<0.00085		0.015	0.00085	mg/L		10/25/16 09:00	10/28/16 19:50	5
Selenium	<0.00024		0.0013	0.00024	mg/L		10/25/16 09:00	10/28/16 19:50	5
Thallium	<0.000085		0.00050	0.000085	mg/L		10/25/16 09:00	10/28/16 19:50	5

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Boron	1.6		0.50	0.21	mg/L		10/25/16 09:00	10/31/16 14:10	50

Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.000070		0.00020	0.000070	mg/L		10/20/16 09:02	10/21/16 12:24	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	270		5.0	3.4	mg/L			10/22/16 16:28	1

Client Sample Results

Client: Southern Company
Project/Site: CCR Plant Scherer

TestAmerica Job ID: 400-128868-1
SDG: Ash Pond

Client Sample ID: SGWC-16

Date Collected: 10/18/16 11:50

Date Received: 10/19/16 08:19

Lab Sample ID: 400-128868-7

Matrix: Water

Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	8.0		1.0	0.89	mg/L			11/02/16 13:47	1
Fluoride	<0.082		0.20	0.082	mg/L			11/02/16 13:47	1
Sulfate	15		1.0	0.70	mg/L			11/02/16 13:47	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0010		0.0025	0.0010	mg/L		10/25/16 09:00	10/28/16 18:43	5
Arsenic	<0.00046		0.0013	0.00046	mg/L		10/25/16 09:00	10/28/16 18:43	5
Barium	0.017		0.0025	0.00049	mg/L		10/25/16 09:00	10/28/16 18:43	5
Beryllium	<0.00034		0.0025	0.00034	mg/L		10/25/16 09:00	10/28/16 18:43	5
Boron	0.55		0.050	0.021	mg/L		10/25/16 09:00	10/28/16 18:43	5
Cadmium	<0.00034		0.0025	0.00034	mg/L		10/25/16 09:00	10/28/16 18:43	5
Calcium	0.75		0.25	0.13	mg/L		10/25/16 09:00	10/28/16 18:43	5
Chromium	0.0088		0.0025	0.0011	mg/L		10/25/16 09:00	10/28/16 18:43	5
Cobalt	0.0034		0.0025	0.00040	mg/L		10/25/16 09:00	10/28/16 18:43	5
Lead	<0.00035		0.0013	0.00035	mg/L		10/25/16 09:00	10/28/16 18:43	5
Lithium	<0.0032		0.0050	0.0032	mg/L		10/25/16 09:00	10/28/16 18:43	5
Molybdenum	<0.00085		0.015	0.00085	mg/L		10/25/16 09:00	10/28/16 18:43	5
Selenium	<0.00024		0.0013	0.00024	mg/L		10/25/16 09:00	10/28/16 18:43	5
Thallium	<0.000085		0.00050	0.000085	mg/L		10/25/16 09:00	10/28/16 18:43	5

Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.000070		0.00020	0.000070	mg/L		10/20/16 09:02	10/21/16 12:25	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	60		5.0	3.4	mg/L			10/24/16 14:33	1

Client Sample Results

Client: Southern Company
Project/Site: CCR Plant Scherer

TestAmerica Job ID: 400-128868-1
SDG: Ash Pond

Client Sample ID: FD-2 (AP)

Date Collected: 10/18/16 00:00

Date Received: 10/19/16 08:19

Lab Sample ID: 400-128868-8

Matrix: Water

Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	8.0		1.0	0.89	mg/L			11/02/16 14:10	1
Fluoride	<0.082		0.20	0.082	mg/L			11/02/16 14:10	1
Sulfate	15		1.0	0.70	mg/L			11/02/16 14:10	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0010		0.0025	0.0010	mg/L		10/25/16 09:00	10/28/16 19:55	5
Arsenic	<0.00046		0.0013	0.00046	mg/L		10/25/16 09:00	10/28/16 19:55	5
Barium	0.017		0.0025	0.00049	mg/L		10/25/16 09:00	10/28/16 19:55	5
Beryllium	<0.00034		0.0025	0.00034	mg/L		10/25/16 09:00	10/28/16 19:55	5
Boron	0.56		0.050	0.021	mg/L		10/25/16 09:00	10/28/16 19:55	5
Cadmium	<0.00034		0.0025	0.00034	mg/L		10/25/16 09:00	10/28/16 19:55	5
Calcium	0.70		0.25	0.13	mg/L		10/25/16 09:00	10/28/16 19:55	5
Chromium	0.0083		0.0025	0.0011	mg/L		10/25/16 09:00	10/28/16 19:55	5
Cobalt	0.0032		0.0025	0.00040	mg/L		10/25/16 09:00	10/28/16 19:55	5
Lead	<0.00035		0.0013	0.00035	mg/L		10/25/16 09:00	10/28/16 19:55	5
Lithium	<0.0032		0.0050	0.0032	mg/L		10/25/16 09:00	10/28/16 19:55	5
Molybdenum	<0.00085		0.015	0.00085	mg/L		10/25/16 09:00	10/28/16 19:55	5
Selenium	0.00030	J	0.0013	0.00024	mg/L		10/25/16 09:00	10/28/16 19:55	5
Thallium	<0.000085		0.00050	0.000085	mg/L		10/25/16 09:00	10/28/16 19:55	5

Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.000070		0.00020	0.000070	mg/L		10/20/16 09:02	10/21/16 12:27	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	50		5.0	3.4	mg/L			10/22/16 17:03	1

Client Sample Results

Client: Southern Company
Project/Site: CCR Plant Scherer

TestAmerica Job ID: 400-128868-1
SDG: Ash Pond

Client Sample ID: SGWC-20

Date Collected: 10/18/16 12:55

Date Received: 10/19/16 08:19

Lab Sample ID: 400-128868-9

Matrix: Water

Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	10		1.0	0.89	mg/L			11/02/16 15:18	1
Fluoride	0.26		0.20	0.082	mg/L			11/02/16 15:18	1
Sulfate	240		10	7.0	mg/L			11/03/16 19:49	10

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0010		0.0025	0.0010	mg/L		10/25/16 09:00	10/28/16 19:59	5
Arsenic	0.00085	J	0.0013	0.00046	mg/L		10/25/16 09:00	10/28/16 19:59	5
Barium	0.039		0.0025	0.00049	mg/L		10/25/16 09:00	10/28/16 19:59	5
Beryllium	0.00075	J	0.0025	0.00034	mg/L		10/25/16 09:00	10/28/16 19:59	5
Cadmium	<0.00034		0.0025	0.00034	mg/L		10/25/16 09:00	10/28/16 19:59	5
Calcium	14		0.25	0.13	mg/L		10/25/16 09:00	10/28/16 19:59	5
Chromium	<0.0011		0.0025	0.0011	mg/L		10/25/16 09:00	10/28/16 19:59	5
Cobalt	0.26		0.0025	0.00040	mg/L		10/25/16 09:00	10/28/16 19:59	5
Lead	<0.00035		0.0013	0.00035	mg/L		10/25/16 09:00	10/28/16 19:59	5
Lithium	0.0038	J	0.0050	0.0032	mg/L		10/25/16 09:00	10/28/16 19:59	5
Molybdenum	<0.00085		0.015	0.00085	mg/L		10/25/16 09:00	10/28/16 19:59	5
Selenium	<0.00024		0.0013	0.00024	mg/L		10/25/16 09:00	10/28/16 19:59	5
Thallium	0.00016	J	0.00050	0.000085	mg/L		10/25/16 09:00	10/28/16 19:59	5

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Boron	2.5		0.50	0.21	mg/L		10/25/16 09:00	10/31/16 14:15	50

Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.000070		0.00020	0.000070	mg/L		10/20/16 09:02	10/21/16 12:42	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	200		5.0	3.4	mg/L			10/24/16 14:33	1

Client Sample Results

Client: Southern Company
Project/Site: CCR Plant Scherer

TestAmerica Job ID: 400-128868-1
SDG: Ash Pond

Client Sample ID: SGWC-23

Date Collected: 10/18/16 13:23

Date Received: 10/19/16 08:19

Lab Sample ID: 400-128868-10

Matrix: Water

Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	9.6		1.0	0.89	mg/L			11/02/16 15:41	1
Fluoride	<0.082		0.20	0.082	mg/L			11/02/16 15:41	1
Sulfate	130		5.0	3.5	mg/L			11/03/16 20:58	5

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0010		0.0025	0.0010	mg/L		10/25/16 09:00	10/28/16 20:04	5
Arsenic	<0.00046		0.0013	0.00046	mg/L		10/25/16 09:00	10/28/16 20:04	5
Barium	0.093		0.0025	0.00049	mg/L		10/25/16 09:00	10/28/16 20:04	5
Beryllium	<0.00034		0.0025	0.00034	mg/L		10/25/16 09:00	10/28/16 20:04	5
Boron	0.68		0.050	0.021	mg/L		10/25/16 09:00	10/28/16 20:04	5
Cadmium	<0.00034		0.0025	0.00034	mg/L		10/25/16 09:00	10/28/16 20:04	5
Calcium	32		0.25	0.13	mg/L		10/25/16 09:00	10/28/16 20:04	5
Chromium	<0.0011		0.0025	0.0011	mg/L		10/25/16 09:00	10/28/16 20:04	5
Cobalt	<0.00040		0.0025	0.00040	mg/L		10/25/16 09:00	10/28/16 20:04	5
Lead	<0.00035		0.0013	0.00035	mg/L		10/25/16 09:00	10/28/16 20:04	5
Lithium	0.0032	J	0.0050	0.0032	mg/L		10/25/16 09:00	10/28/16 20:04	5
Molybdenum	<0.00085		0.015	0.00085	mg/L		10/25/16 09:00	10/28/16 20:04	5
Selenium	<0.00024		0.0013	0.00024	mg/L		10/25/16 09:00	10/28/16 20:04	5
Thallium	<0.000085		0.00050	0.000085	mg/L		10/25/16 09:00	10/28/16 20:04	5

Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.000070		0.00020	0.000070	mg/L		10/20/16 09:02	10/21/16 12:43	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	270		5.0	3.4	mg/L			10/24/16 14:33	1

Client Sample Results

Client: Southern Company
Project/Site: CCR Plant Scherer

TestAmerica Job ID: 400-128868-1
SDG: Ash Pond

Client Sample ID: SGWC-9

Lab Sample ID: 400-128868-11

Date Collected: 10/18/16 15:15

Matrix: Water

Date Received: 10/19/16 08:19

Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	9.4		1.0	0.89	mg/L			11/02/16 16:04	1
Fluoride	<0.082		0.20	0.082	mg/L			11/02/16 16:04	1
Sulfate	280		10	7.0	mg/L			11/03/16 22:06	10

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0010		0.0025	0.0010	mg/L		10/25/16 09:00	10/28/16 20:08	5
Arsenic	0.00074	J	0.0013	0.00046	mg/L		10/25/16 09:00	10/28/16 20:08	5
Barium	0.049		0.0025	0.00049	mg/L		10/25/16 09:00	10/28/16 20:08	5
Beryllium	<0.00034		0.0025	0.00034	mg/L		10/25/16 09:00	10/28/16 20:08	5
Cadmium	<0.00034		0.0025	0.00034	mg/L		10/25/16 09:00	10/28/16 20:08	5
Calcium	53		0.25	0.13	mg/L		10/25/16 09:00	10/28/16 20:08	5
Chromium	<0.0011		0.0025	0.0011	mg/L		10/25/16 09:00	10/28/16 20:08	5
Cobalt	0.017		0.0025	0.00040	mg/L		10/25/16 09:00	10/28/16 20:08	5
Lead	<0.00035		0.0013	0.00035	mg/L		10/25/16 09:00	10/28/16 20:08	5
Lithium	<0.0032		0.0050	0.0032	mg/L		10/25/16 09:00	10/28/16 20:08	5
Molybdenum	0.0014	J	0.015	0.00085	mg/L		10/25/16 09:00	10/28/16 20:08	5
Selenium	<0.00024		0.0013	0.00024	mg/L		10/25/16 09:00	10/28/16 20:08	5
Thallium	<0.000085		0.00050	0.000085	mg/L		10/25/16 09:00	10/28/16 20:08	5

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Boron	2.4		0.50	0.21	mg/L		10/25/16 09:00	10/31/16 14:19	50

Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.000070		0.00020	0.000070	mg/L		10/20/16 09:02	10/21/16 12:45	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	490		5.0	3.4	mg/L			10/24/16 14:33	1

Client Sample Results

Client: Southern Company
Project/Site: CCR Plant Scherer

TestAmerica Job ID: 400-128868-1
SDG: Ash Pond

Client Sample ID: SGWC-19

Lab Sample ID: 400-128868-12

Date Collected: 10/18/16 14:05

Matrix: Water

Date Received: 10/19/16 08:19

Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	7.7		1.0	0.89	mg/L			11/02/16 16:26	1
Fluoride	<0.082		0.20	0.082	mg/L			11/02/16 16:26	1
Sulfate	210		10	7.0	mg/L			11/03/16 22:29	10

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0010		0.0025	0.0010	mg/L		10/25/16 09:00	10/28/16 20:13	5
Arsenic	<0.00046		0.0013	0.00046	mg/L		10/25/16 09:00	10/28/16 20:13	5
Barium	0.042		0.0025	0.00049	mg/L		10/25/16 09:00	10/28/16 20:13	5
Beryllium	<0.00034		0.0025	0.00034	mg/L		10/25/16 09:00	10/28/16 20:13	5
Cadmium	<0.00034		0.0025	0.00034	mg/L		10/25/16 09:00	10/28/16 20:13	5
Calcium	36		0.25	0.13	mg/L		10/25/16 09:00	10/28/16 20:13	5
Chromium	0.013		0.0025	0.0011	mg/L		10/25/16 09:00	10/28/16 20:13	5
Cobalt	0.00095 J		0.0025	0.00040	mg/L		10/25/16 09:00	10/28/16 20:13	5
Lead	<0.00035		0.0013	0.00035	mg/L		10/25/16 09:00	10/28/16 20:13	5
Lithium	<0.0032		0.0050	0.0032	mg/L		10/25/16 09:00	10/28/16 20:13	5
Molybdenum	<0.00085		0.015	0.00085	mg/L		10/25/16 09:00	10/28/16 20:13	5
Selenium	<0.00024		0.0013	0.00024	mg/L		10/25/16 09:00	10/28/16 20:13	5
Thallium	<0.000085		0.00050	0.000085	mg/L		10/25/16 09:00	10/28/16 20:13	5

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Boron	2.1		0.50	0.21	mg/L		10/25/16 09:00	10/31/16 14:46	50

Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.000070		0.00020	0.000070	mg/L		10/20/16 09:02	10/21/16 12:46	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	340		5.0	3.4	mg/L			10/24/16 14:33	1

Client Sample Results

Client: Southern Company
Project/Site: CCR Plant Scherer

TestAmerica Job ID: 400-128868-1
SDG: Ash Pond

Client Sample ID: SGWC-22

Date Collected: 10/18/16 16:41

Date Received: 10/19/16 08:19

Lab Sample ID: 400-128868-13

Matrix: Water

Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	10		1.0	0.89	mg/L			11/02/16 16:49	1
Fluoride	<0.082		0.20	0.082	mg/L			11/02/16 16:49	1
Sulfate	83		5.0	3.5	mg/L			11/03/16 22:52	5

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0010		0.0025	0.0010	mg/L		10/25/16 09:00	10/28/16 20:17	5
Arsenic	<0.00046		0.0013	0.00046	mg/L		10/25/16 09:00	10/28/16 20:17	5
Barium	0.096		0.0025	0.00049	mg/L		10/25/16 09:00	10/28/16 20:17	5
Beryllium	<0.00034		0.0025	0.00034	mg/L		10/25/16 09:00	10/28/16 20:17	5
Boron	0.41		0.050	0.021	mg/L		10/25/16 09:00	10/28/16 20:17	5
Cadmium	<0.00034		0.0025	0.00034	mg/L		10/25/16 09:00	10/28/16 20:17	5
Calcium	23		0.25	0.13	mg/L		10/25/16 09:00	10/28/16 20:17	5
Chromium	<0.0011		0.0025	0.0011	mg/L		10/25/16 09:00	10/28/16 20:17	5
Cobalt	0.0043		0.0025	0.00040	mg/L		10/25/16 09:00	10/28/16 20:17	5
Lead	<0.00035		0.0013	0.00035	mg/L		10/25/16 09:00	10/28/16 20:17	5
Lithium	<0.0032		0.0050	0.0032	mg/L		10/25/16 09:00	10/28/16 20:17	5
Molybdenum	<0.00085		0.015	0.00085	mg/L		10/25/16 09:00	10/28/16 20:17	5
Selenium	<0.00024		0.0013	0.00024	mg/L		10/25/16 09:00	10/28/16 20:17	5
Thallium	<0.000085		0.00050	0.000085	mg/L		10/25/16 09:00	10/28/16 20:17	5

Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.000070		0.00020	0.000070	mg/L		10/20/16 09:02	10/21/16 12:47	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	190		5.0	3.4	mg/L			10/24/16 14:33	1

Client Sample Results

Client: Southern Company
Project/Site: CCR Plant Scherer

TestAmerica Job ID: 400-128868-1
SDG: Ash Pond

Client Sample ID: FB-2 (AP)

Lab Sample ID: 400-128868-14

Date Collected: 10/18/16 12:56

Matrix: Water

Date Received: 10/19/16 08:19

Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<0.89		1.0	0.89	mg/L			11/02/16 17:12	1
Fluoride	<0.082		0.20	0.082	mg/L			11/02/16 17:12	1
Sulfate	<0.70		1.0	0.70	mg/L			11/02/16 17:12	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0010		0.0025	0.0010	mg/L		10/25/16 09:00	10/28/16 20:22	5
Arsenic	<0.00046		0.0013	0.00046	mg/L		10/25/16 09:00	10/28/16 20:22	5
Barium	<0.00049		0.0025	0.00049	mg/L		10/25/16 09:00	10/28/16 20:22	5
Beryllium	<0.00034		0.0025	0.00034	mg/L		10/25/16 09:00	10/28/16 20:22	5
Boron	0.023	J	0.050	0.021	mg/L		10/25/16 09:00	10/28/16 20:22	5
Cadmium	<0.00034		0.0025	0.00034	mg/L		10/25/16 09:00	10/28/16 20:22	5
Calcium	<0.13		0.25	0.13	mg/L		10/25/16 09:00	10/28/16 20:22	5
Chromium	<0.0011		0.0025	0.0011	mg/L		10/25/16 09:00	10/28/16 20:22	5
Cobalt	<0.00040		0.0025	0.00040	mg/L		10/25/16 09:00	10/28/16 20:22	5
Lead	<0.00035		0.0013	0.00035	mg/L		10/25/16 09:00	10/28/16 20:22	5
Lithium	<0.0032		0.0050	0.0032	mg/L		10/25/16 09:00	10/28/16 20:22	5
Molybdenum	<0.00085		0.015	0.00085	mg/L		10/25/16 09:00	10/28/16 20:22	5
Selenium	<0.00024		0.0013	0.00024	mg/L		10/25/16 09:00	10/28/16 20:22	5
Thallium	<0.000085		0.00050	0.000085	mg/L		10/25/16 09:00	10/28/16 20:22	5

Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.000070		0.00020	0.000070	mg/L		10/20/16 09:02	10/21/16 12:48	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	<3.4		5.0	3.4	mg/L			10/24/16 14:33	1

Definitions/Glossary

Client: Southern Company
Project/Site: CCR Plant Scherer

TestAmerica Job ID: 400-128868-1
SDG: Ash Pond

Qualifiers

HPLC/IC

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.

Metals

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.
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.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
α	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CNF	Contains no Free Liquid
DER	Duplicate error ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision level concentration
MDA	Minimum detectable activity
EDL	Estimated Detection Limit
MDC	Minimum detectable concentration
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
NC	Not Calculated
ND	Not detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RER	Relative error ratio
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)

Lab Chronicle

Client: Southern Company
Project/Site: CCR Plant Scherer

TestAmerica Job ID: 400-128868-1
SDG: Ash Pond

Client Sample ID: SGWC-7

Date Collected: 10/18/16 10:13

Date Received: 10/19/16 08:19

Lab Sample ID: 400-128868-1

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	300.0		1	329141	11/01/16 05:31	TAJ	TAL PEN
Total Recoverable	Prep	3005A			328055	10/25/16 09:00	RJB	TAL PEN
Total Recoverable	Analysis	6020		5	328746	10/28/16 19:05	AJR	TAL PEN
Total/NA	Prep	7470A			327514	10/20/16 09:02	JAP	TAL PEN
Total/NA	Analysis	7470A		1	327776	10/21/16 12:12	JAP	TAL PEN
Total/NA	Analysis	SM 2540C		1	327879	10/22/16 17:03	TET	TAL PEN

Client Sample ID: SGWC-15

Date Collected: 10/18/16 10:15

Date Received: 10/19/16 08:19

Lab Sample ID: 400-128868-2

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	300.0		1	329141	11/01/16 06:17	TAJ	TAL PEN
Total/NA	Analysis	300.0		5	329400	11/02/16 11:53	TAJ	TAL PEN
Total Recoverable	Prep	3005A			328055	10/25/16 09:00	RJB	TAL PEN
Total Recoverable	Analysis	6020		5	328746	10/28/16 19:10	AJR	TAL PEN
Total Recoverable	Prep	3005A	DL		328055	10/25/16 09:00	RJB	TAL PEN
Total Recoverable	Analysis	6020	DL	50	329065	10/31/16 14:01	AJR	TAL PEN
Total/NA	Prep	7470A			327514	10/20/16 09:02	JAP	TAL PEN
Total/NA	Analysis	7470A		1	327776	10/21/16 12:13	JAP	TAL PEN
Total/NA	Analysis	SM 2540C		1	327879	10/22/16 17:03	TET	TAL PEN

Client Sample ID: EB-2 (AP)

Date Collected: 10/18/16 08:07

Date Received: 10/19/16 08:19

Lab Sample ID: 400-128868-3

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	300.0		1	329141	11/01/16 06:40	TAJ	TAL PEN
Total Recoverable	Prep	3005A			328055	10/25/16 09:00	RJB	TAL PEN
Total Recoverable	Analysis	6020		5	328746	10/28/16 19:14	AJR	TAL PEN
Total/NA	Prep	7470A			327514	10/20/16 09:02	JAP	TAL PEN
Total/NA	Analysis	7470A		1	327776	10/21/16 12:21	JAP	TAL PEN
Total/NA	Analysis	SM 2540C		1	327879	10/22/16 17:03	TET	TAL PEN

Client Sample ID: SGWC-21

Date Collected: 10/18/16 10:25

Date Received: 10/19/16 08:19

Lab Sample ID: 400-128868-4

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	300.0		1	329141	11/01/16 07:02	TAJ	TAL PEN
Total/NA	Analysis	300.0		5	329400	11/02/16 13:01	TAJ	TAL PEN
Total Recoverable	Prep	3005A			328055	10/25/16 09:00	RJB	TAL PEN

TestAmerica Pensacola

Lab Chronicle

Client: Southern Company
Project/Site: CCR Plant Scherer

TestAmerica Job ID: 400-128868-1
SDG: Ash Pond

Client Sample ID: SGWC-21

Lab Sample ID: 400-128868-4

Date Collected: 10/18/16 10:25

Matrix: Water

Date Received: 10/19/16 08:19

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total Recoverable	Analysis	6020		5	328746	10/28/16 19:41	AJR	TAL PEN
Total Recoverable	Prep	3005A	DL		328055	10/25/16 09:00	RJB	TAL PEN
Total Recoverable	Analysis	6020	DL	50	329065	10/31/16 14:06	AJR	TAL PEN
Total/NA	Prep	7470A			327514	10/20/16 09:02	JAP	TAL PEN
Total/NA	Analysis	7470A		1	327776	10/21/16 12:22	JAP	TAL PEN
Total/NA	Analysis	SM 2540C		1	327879	10/22/16 17:03	TET	TAL PEN

Client Sample ID: EB-3 (AP)

Lab Sample ID: 400-128868-5

Date Collected: 10/18/16 08:17

Matrix: Water

Date Received: 10/19/16 08:19

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	300.0		1	329141	11/01/16 07:25	TAJ	TAL PEN
Total Recoverable	Prep	3005A			328055	10/25/16 09:00	RJB	TAL PEN
Total Recoverable	Analysis	6020		5	328746	10/28/16 19:46	AJR	TAL PEN
Total/NA	Prep	7470A			327514	10/20/16 09:02	JAP	TAL PEN
Total/NA	Analysis	7470A		1	327776	10/21/16 12:23	JAP	TAL PEN
Total/NA	Analysis	SM 2540C		1	327879	10/22/16 17:03	TET	TAL PEN

Client Sample ID: FD-3 (AP)

Lab Sample ID: 400-128868-6

Date Collected: 10/18/16 00:00

Matrix: Water

Date Received: 10/19/16 08:19

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	300.0		1	329141	11/01/16 07:48	TAJ	TAL PEN
Total/NA	Analysis	300.0		5	329400	11/02/16 13:24	TAJ	TAL PEN
Total Recoverable	Prep	3005A			328055	10/25/16 09:00	RJB	TAL PEN
Total Recoverable	Analysis	6020		5	328746	10/28/16 19:50	AJR	TAL PEN
Total Recoverable	Prep	3005A	DL		328055	10/25/16 09:00	RJB	TAL PEN
Total Recoverable	Analysis	6020	DL	50	329065	10/31/16 14:10	AJR	TAL PEN
Total/NA	Prep	7470A			327514	10/20/16 09:02	JAP	TAL PEN
Total/NA	Analysis	7470A		1	327776	10/21/16 12:24	JAP	TAL PEN
Total/NA	Analysis	SM 2540C		1	327877	10/22/16 16:28	TET	TAL PEN

Client Sample ID: SGWC-16

Lab Sample ID: 400-128868-7

Date Collected: 10/18/16 11:50

Matrix: Water

Date Received: 10/19/16 08:19

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	300.0		1	329400	11/02/16 13:47	TAJ	TAL PEN
Total Recoverable	Prep	3005A			328055	10/25/16 09:00	RJB	TAL PEN
Total Recoverable	Analysis	6020		5	328746	10/28/16 18:43	AJR	TAL PEN

TestAmerica Pensacola

Lab Chronicle

Client: Southern Company
Project/Site: CCR Plant Scherer

TestAmerica Job ID: 400-128868-1
SDG: Ash Pond

Client Sample ID: SGWC-16

Lab Sample ID: 400-128868-7

Date Collected: 10/18/16 11:50

Matrix: Water

Date Received: 10/19/16 08:19

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	7470A			327514	10/20/16 09:02	JAP	TAL PEN
Total/NA	Analysis	7470A		1	327776	10/21/16 12:25	JAP	TAL PEN
Total/NA	Analysis	SM 2540C		1	328013	10/24/16 14:33	TET	TAL PEN

Client Sample ID: FD-2 (AP)

Lab Sample ID: 400-128868-8

Date Collected: 10/18/16 00:00

Matrix: Water

Date Received: 10/19/16 08:19

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	300.0		1	329400	11/02/16 14:10	TAJ	TAL PEN
Total Recoverable	Prep	3005A			328055	10/25/16 09:00	RJB	TAL PEN
Total Recoverable	Analysis	6020		5	328746	10/28/16 19:55	AJR	TAL PEN
Total/NA	Prep	7470A			327514	10/20/16 09:02	JAP	TAL PEN
Total/NA	Analysis	7470A		1	327776	10/21/16 12:27	JAP	TAL PEN
Total/NA	Analysis	SM 2540C		1	327879	10/22/16 17:03	TET	TAL PEN

Client Sample ID: SGWC-20

Lab Sample ID: 400-128868-9

Date Collected: 10/18/16 12:55

Matrix: Water

Date Received: 10/19/16 08:19

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	300.0		1	329400	11/02/16 15:18	TAJ	TAL PEN
Total/NA	Analysis	300.0		10	329695	11/03/16 19:49	TAJ	TAL PEN
Total Recoverable	Prep	3005A			328055	10/25/16 09:00	RJB	TAL PEN
Total Recoverable	Analysis	6020		5	328746	10/28/16 19:59	AJR	TAL PEN
Total Recoverable	Prep	3005A	DL		328055	10/25/16 09:00	RJB	TAL PEN
Total Recoverable	Analysis	6020	DL	50	329065	10/31/16 14:15	AJR	TAL PEN
Total/NA	Prep	7470A			327514	10/20/16 09:02	JAP	TAL PEN
Total/NA	Analysis	7470A		1	327776	10/21/16 12:42	JAP	TAL PEN
Total/NA	Analysis	SM 2540C		1	328013	10/24/16 14:33	TET	TAL PEN

Client Sample ID: SGWC-23

Lab Sample ID: 400-128868-10

Date Collected: 10/18/16 13:23

Matrix: Water

Date Received: 10/19/16 08:19

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	300.0		1	329400	11/02/16 15:41	TAJ	TAL PEN
Total/NA	Analysis	300.0		5	329695	11/03/16 20:58	TAJ	TAL PEN
Total Recoverable	Prep	3005A			328055	10/25/16 09:00	RJB	TAL PEN
Total Recoverable	Analysis	6020		5	328746	10/28/16 20:04	AJR	TAL PEN
Total/NA	Prep	7470A			327514	10/20/16 09:02	JAP	TAL PEN
Total/NA	Analysis	7470A		1	327776	10/21/16 12:43	JAP	TAL PEN

TestAmerica Pensacola

Lab Chronicle

Client: Southern Company
Project/Site: CCR Plant Scherer

TestAmerica Job ID: 400-128868-1
SDG: Ash Pond

Client Sample ID: SGWC-23

Lab Sample ID: 400-128868-10

Date Collected: 10/18/16 13:23

Matrix: Water

Date Received: 10/19/16 08:19

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	SM 2540C		1	328013	10/24/16 14:33	TET	TAL PEN

Client Sample ID: SGWC-9

Lab Sample ID: 400-128868-11

Date Collected: 10/18/16 15:15

Matrix: Water

Date Received: 10/19/16 08:19

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	300.0		1	329400	11/02/16 16:04	TAJ	TAL PEN
Total/NA	Analysis	300.0		10	329695	11/03/16 22:06	TAJ	TAL PEN
Total Recoverable	Prep	3005A			328055	10/25/16 09:00	RJB	TAL PEN
Total Recoverable	Analysis	6020		5	328746	10/28/16 20:08	AJR	TAL PEN
Total Recoverable	Prep	3005A	DL		328055	10/25/16 09:00	RJB	TAL PEN
Total Recoverable	Analysis	6020	DL	50	329065	10/31/16 14:19	AJR	TAL PEN
Total/NA	Prep	7470A			327514	10/20/16 09:02	JAP	TAL PEN
Total/NA	Analysis	7470A		1	327776	10/21/16 12:45	JAP	TAL PEN
Total/NA	Analysis	SM 2540C		1	328013	10/24/16 14:33	TET	TAL PEN

Client Sample ID: SGWC-19

Lab Sample ID: 400-128868-12

Date Collected: 10/18/16 14:05

Matrix: Water

Date Received: 10/19/16 08:19

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	300.0		1	329400	11/02/16 16:26	TAJ	TAL PEN
Total/NA	Analysis	300.0		10	329695	11/03/16 22:29	TAJ	TAL PEN
Total Recoverable	Prep	3005A			328055	10/25/16 09:00	RJB	TAL PEN
Total Recoverable	Analysis	6020		5	328746	10/28/16 20:13	AJR	TAL PEN
Total Recoverable	Prep	3005A	DL		328055	10/25/16 09:00	RJB	TAL PEN
Total Recoverable	Analysis	6020	DL	50	329065	10/31/16 14:46	AJR	TAL PEN
Total/NA	Prep	7470A			327514	10/20/16 09:02	JAP	TAL PEN
Total/NA	Analysis	7470A		1	327776	10/21/16 12:46	JAP	TAL PEN
Total/NA	Analysis	SM 2540C		1	328013	10/24/16 14:33	TET	TAL PEN

Client Sample ID: SGWC-22

Lab Sample ID: 400-128868-13

Date Collected: 10/18/16 16:41

Matrix: Water

Date Received: 10/19/16 08:19

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	300.0		1	329400	11/02/16 16:49	TAJ	TAL PEN
Total/NA	Analysis	300.0		5	329695	11/03/16 22:52	TAJ	TAL PEN
Total Recoverable	Prep	3005A			328055	10/25/16 09:00	RJB	TAL PEN
Total Recoverable	Analysis	6020		5	328746	10/28/16 20:17	AJR	TAL PEN
Total/NA	Prep	7470A			327514	10/20/16 09:02	JAP	TAL PEN

TestAmerica Pensacola

Lab Chronicle

Client: Southern Company
Project/Site: CCR Plant Scherer

TestAmerica Job ID: 400-128868-1
SDG: Ash Pond

Client Sample ID: SGWC-22

Lab Sample ID: 400-128868-13

Date Collected: 10/18/16 16:41

Matrix: Water

Date Received: 10/19/16 08:19

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	7470A		1	327776	10/21/16 12:47	JAP	TAL PEN
Total/NA	Analysis	SM 2540C		1	328013	10/24/16 14:33	TET	TAL PEN

Client Sample ID: FB-2 (AP)

Lab Sample ID: 400-128868-14

Date Collected: 10/18/16 12:56

Matrix: Water

Date Received: 10/19/16 08:19

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	300.0		1	329400	11/02/16 17:12	TAJ	TAL PEN
Total Recoverable	Prep	3005A			328055	10/25/16 09:00	RJB	TAL PEN
Total Recoverable	Analysis	6020		5	328746	10/28/16 20:22	AJR	TAL PEN
Total/NA	Prep	7470A			327514	10/20/16 09:02	JAP	TAL PEN
Total/NA	Analysis	7470A		1	327776	10/21/16 12:48	JAP	TAL PEN
Total/NA	Analysis	SM 2540C		1	328013	10/24/16 14:33	TET	TAL PEN

Laboratory References:

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

QC Association Summary

Client: Southern Company
Project/Site: CCR Plant Scherer

TestAmerica Job ID: 400-128868-1
SDG: Ash Pond

HPLC/IC

Analysis Batch: 329141

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-128868-1	SGWC-7	Total/NA	Water	300.0	
400-128868-2	SGWC-15	Total/NA	Water	300.0	
400-128868-3	EB-2 (AP)	Total/NA	Water	300.0	
400-128868-4	SGWC-21	Total/NA	Water	300.0	
400-128868-5	EB-3 (AP)	Total/NA	Water	300.0	
400-128868-6	FD-3 (AP)	Total/NA	Water	300.0	
MB 400-329141/34	Method Blank	Total/NA	Water	300.0	
LCS 400-329141/35	Lab Control Sample	Total/NA	Water	300.0	
LCSD 400-329141/36	Lab Control Sample Dup	Total/NA	Water	300.0	
400-128698-L-1 MSD	Matrix Spike Duplicate	Total/NA	Water	300.0	
400-128868-1 MS	SGWC-7	Total/NA	Water	300.0	

Analysis Batch: 329400

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-128868-2	SGWC-15	Total/NA	Water	300.0	
400-128868-4	SGWC-21	Total/NA	Water	300.0	
400-128868-6	FD-3 (AP)	Total/NA	Water	300.0	
400-128868-7	SGWC-16	Total/NA	Water	300.0	
400-128868-8	FD-2 (AP)	Total/NA	Water	300.0	
400-128868-9	SGWC-20	Total/NA	Water	300.0	
400-128868-10	SGWC-23	Total/NA	Water	300.0	
400-128868-11	SGWC-9	Total/NA	Water	300.0	
400-128868-12	SGWC-19	Total/NA	Water	300.0	
400-128868-13	SGWC-22	Total/NA	Water	300.0	
400-128868-14	FB-2 (AP)	Total/NA	Water	300.0	

Analysis Batch: 329695

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-128868-9	SGWC-20	Total/NA	Water	300.0	
400-128868-10	SGWC-23	Total/NA	Water	300.0	
400-128868-11	SGWC-9	Total/NA	Water	300.0	
400-128868-12	SGWC-19	Total/NA	Water	300.0	
400-128868-13	SGWC-22	Total/NA	Water	300.0	
MB 400-329695/20	Method Blank	Total/NA	Water	300.0	
LCS 400-329695/21	Lab Control Sample	Total/NA	Water	300.0	
LCSD 400-329695/22	Lab Control Sample Dup	Total/NA	Water	300.0	
400-128868-9 MS	SGWC-20	Total/NA	Water	300.0	
400-128868-9 MSD	SGWC-20	Total/NA	Water	300.0	

Metals

Prep Batch: 327514

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-128868-1	SGWC-7	Total/NA	Water	7470A	
400-128868-2	SGWC-15	Total/NA	Water	7470A	
400-128868-3	EB-2 (AP)	Total/NA	Water	7470A	
400-128868-4	SGWC-21	Total/NA	Water	7470A	
400-128868-5	EB-3 (AP)	Total/NA	Water	7470A	
400-128868-6	FD-3 (AP)	Total/NA	Water	7470A	
400-128868-7	SGWC-16	Total/NA	Water	7470A	

TestAmerica Pensacola

QC Association Summary

Client: Southern Company
 Project/Site: CCR Plant Scherer

TestAmerica Job ID: 400-128868-1
 SDG: Ash Pond

Metals (Continued)

Prep Batch: 327514 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-128868-8	FD-2 (AP)	Total/NA	Water	7470A	
400-128868-9	SGWC-20	Total/NA	Water	7470A	
400-128868-10	SGWC-23	Total/NA	Water	7470A	
400-128868-11	SGWC-9	Total/NA	Water	7470A	
400-128868-12	SGWC-19	Total/NA	Water	7470A	
400-128868-13	SGWC-22	Total/NA	Water	7470A	
400-128868-14	FB-2 (AP)	Total/NA	Water	7470A	
MB 400-327514/14-A	Method Blank	Total/NA	Water	7470A	
LCS 400-327514/15-A	Lab Control Sample	Total/NA	Water	7470A	
400-128868-8 MS	FD-2 (AP)	Total/NA	Water	7470A	
400-128868-8 MSD	FD-2 (AP)	Total/NA	Water	7470A	

Analysis Batch: 327776

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-128868-1	SGWC-7	Total/NA	Water	7470A	327514
400-128868-2	SGWC-15	Total/NA	Water	7470A	327514
400-128868-3	EB-2 (AP)	Total/NA	Water	7470A	327514
400-128868-4	SGWC-21	Total/NA	Water	7470A	327514
400-128868-5	EB-3 (AP)	Total/NA	Water	7470A	327514
400-128868-6	FD-3 (AP)	Total/NA	Water	7470A	327514
400-128868-7	SGWC-16	Total/NA	Water	7470A	327514
400-128868-8	FD-2 (AP)	Total/NA	Water	7470A	327514
400-128868-9	SGWC-20	Total/NA	Water	7470A	327514
400-128868-10	SGWC-23	Total/NA	Water	7470A	327514
400-128868-11	SGWC-9	Total/NA	Water	7470A	327514
400-128868-12	SGWC-19	Total/NA	Water	7470A	327514
400-128868-13	SGWC-22	Total/NA	Water	7470A	327514
400-128868-14	FB-2 (AP)	Total/NA	Water	7470A	327514
MB 400-327514/14-A	Method Blank	Total/NA	Water	7470A	327514
LCS 400-327514/15-A	Lab Control Sample	Total/NA	Water	7470A	327514
400-128868-8 MS	FD-2 (AP)	Total/NA	Water	7470A	327514
400-128868-8 MSD	FD-2 (AP)	Total/NA	Water	7470A	327514

Prep Batch: 328055

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-128868-1	SGWC-7	Total Recoverable	Water	3005A	
400-128868-2 - DL	SGWC-15	Total Recoverable	Water	3005A	
400-128868-2	SGWC-15	Total Recoverable	Water	3005A	
400-128868-3	EB-2 (AP)	Total Recoverable	Water	3005A	
400-128868-4	SGWC-21	Total Recoverable	Water	3005A	
400-128868-4 - DL	SGWC-21	Total Recoverable	Water	3005A	
400-128868-5	EB-3 (AP)	Total Recoverable	Water	3005A	
400-128868-6 - DL	FD-3 (AP)	Total Recoverable	Water	3005A	
400-128868-6	FD-3 (AP)	Total Recoverable	Water	3005A	
400-128868-7	SGWC-16	Total Recoverable	Water	3005A	
400-128868-8	FD-2 (AP)	Total Recoverable	Water	3005A	
400-128868-9	SGWC-20	Total Recoverable	Water	3005A	
400-128868-9 - DL	SGWC-20	Total Recoverable	Water	3005A	
400-128868-10	SGWC-23	Total Recoverable	Water	3005A	
400-128868-11 - DL	SGWC-9	Total Recoverable	Water	3005A	
400-128868-11	SGWC-9	Total Recoverable	Water	3005A	

TestAmerica Pensacola

QC Association Summary

Client: Southern Company
Project/Site: CCR Plant Scherer

TestAmerica Job ID: 400-128868-1
SDG: Ash Pond

Metals (Continued)

Prep Batch: 328055 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-128868-12 - DL	SGWC-19	Total Recoverable	Water	3005A	
400-128868-12	SGWC-19	Total Recoverable	Water	3005A	
400-128868-13	SGWC-22	Total Recoverable	Water	3005A	
400-128868-14	FB-2 (AP)	Total Recoverable	Water	3005A	
MB 400-328055/1-A ^5	Method Blank	Total Recoverable	Water	3005A	
LCS 400-328055/2-A	Lab Control Sample	Total Recoverable	Water	3005A	
400-128868-7 MS	SGWC-16	Total Recoverable	Water	3005A	
400-128868-7 MSD	SGWC-16	Total Recoverable	Water	3005A	

Analysis Batch: 328746

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-128868-1	SGWC-7	Total Recoverable	Water	6020	328055
400-128868-2	SGWC-15	Total Recoverable	Water	6020	328055
400-128868-3	EB-2 (AP)	Total Recoverable	Water	6020	328055
400-128868-4	SGWC-21	Total Recoverable	Water	6020	328055
400-128868-5	EB-3 (AP)	Total Recoverable	Water	6020	328055
400-128868-6	FD-3 (AP)	Total Recoverable	Water	6020	328055
400-128868-7	SGWC-16	Total Recoverable	Water	6020	328055
400-128868-8	FD-2 (AP)	Total Recoverable	Water	6020	328055
400-128868-9	SGWC-20	Total Recoverable	Water	6020	328055
400-128868-10	SGWC-23	Total Recoverable	Water	6020	328055
400-128868-11	SGWC-9	Total Recoverable	Water	6020	328055
400-128868-12	SGWC-19	Total Recoverable	Water	6020	328055
400-128868-13	SGWC-22	Total Recoverable	Water	6020	328055
400-128868-14	FB-2 (AP)	Total Recoverable	Water	6020	328055
MB 400-328055/1-A ^5	Method Blank	Total Recoverable	Water	6020	328055
LCS 400-328055/2-A	Lab Control Sample	Total Recoverable	Water	6020	328055
400-128868-7 MS	SGWC-16	Total Recoverable	Water	6020	328055
400-128868-7 MSD	SGWC-16	Total Recoverable	Water	6020	328055

Analysis Batch: 329065

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-128868-2 - DL	SGWC-15	Total Recoverable	Water	6020	328055
400-128868-4 - DL	SGWC-21	Total Recoverable	Water	6020	328055
400-128868-6 - DL	FD-3 (AP)	Total Recoverable	Water	6020	328055
400-128868-9 - DL	SGWC-20	Total Recoverable	Water	6020	328055
400-128868-11 - DL	SGWC-9	Total Recoverable	Water	6020	328055
400-128868-12 - DL	SGWC-19	Total Recoverable	Water	6020	328055

General Chemistry

Analysis Batch: 327877

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-128868-6	FD-3 (AP)	Total/NA	Water	SM 2540C	
MB 400-327877/1	Method Blank	Total/NA	Water	SM 2540C	
LCS 400-327877/2	Lab Control Sample	Total/NA	Water	SM 2540C	
400-128789-A-1 DU	Duplicate	Total/NA	Water	SM 2540C	

QC Association Summary

Client: Southern Company
Project/Site: CCR Plant Scherer

TestAmerica Job ID: 400-128868-1
SDG: Ash Pond

General Chemistry (Continued)

Analysis Batch: 327879

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-128868-1	SGWC-7	Total/NA	Water	SM 2540C	
400-128868-2	SGWC-15	Total/NA	Water	SM 2540C	
400-128868-3	EB-2 (AP)	Total/NA	Water	SM 2540C	
400-128868-4	SGWC-21	Total/NA	Water	SM 2540C	
400-128868-5	EB-3 (AP)	Total/NA	Water	SM 2540C	
400-128868-8	FD-2 (AP)	Total/NA	Water	SM 2540C	
MB 400-327879/1	Method Blank	Total/NA	Water	SM 2540C	
LCS 400-327879/2	Lab Control Sample	Total/NA	Water	SM 2540C	
400-128868-2 DU	SGWC-15	Total/NA	Water	SM 2540C	

Analysis Batch: 328013

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-128868-7	SGWC-16	Total/NA	Water	SM 2540C	
400-128868-9	SGWC-20	Total/NA	Water	SM 2540C	
400-128868-10	SGWC-23	Total/NA	Water	SM 2540C	
400-128868-11	SGWC-9	Total/NA	Water	SM 2540C	
400-128868-12	SGWC-19	Total/NA	Water	SM 2540C	
400-128868-13	SGWC-22	Total/NA	Water	SM 2540C	
400-128868-14	FB-2 (AP)	Total/NA	Water	SM 2540C	
MB 400-328013/1	Method Blank	Total/NA	Water	SM 2540C	
LCS 400-328013/2	Lab Control Sample	Total/NA	Water	SM 2540C	
400-128868-7 DU	SGWC-16	Total/NA	Water	SM 2540C	
400-128868-12 DU	SGWC-19	Total/NA	Water	SM 2540C	

QC Sample Results

Client: Southern Company
Project/Site: CCR Plant Scherer

TestAmerica Job ID: 400-128868-1
SDG: Ash Pond

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 400-329141/34
Matrix: Water
Analysis Batch: 329141

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<0.89		1.0	0.89	mg/L			10/31/16 22:18	1
Fluoride	<0.082		0.20	0.082	mg/L			10/31/16 22:18	1
Sulfate	<0.70		1.0	0.70	mg/L			10/31/16 22:18	1

Lab Sample ID: LCS 400-329141/35
Matrix: Water
Analysis Batch: 329141

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloride	10.0	9.25		mg/L		93	90 - 110
Fluoride	10.0	9.85		mg/L		98	90 - 110
Sulfate	10.0	9.70		mg/L		97	90 - 110

Lab Sample ID: LCSD 400-329141/36
Matrix: Water
Analysis Batch: 329141

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
Chloride	10.0	9.26		mg/L		93	90 - 110	0	15
Fluoride	10.0	9.98		mg/L		100	90 - 110	1	15
Sulfate	10.0	9.87		mg/L		99	90 - 110	2	15

Lab Sample ID: 400-128698-L-1 MSD
Matrix: Water
Analysis Batch: 329141

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	36.5		mg/L		93	80 - 120	0	20
Fluoride	0.16	J	10.0	11.0		mg/L		108	80 - 120	0	20
Sulfate	16		10.0	26.9		mg/L		105	80 - 120	0	20

Lab Sample ID: 400-128868-1 MS
Matrix: Water
Analysis Batch: 329141

Client Sample ID: SGWC-7
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloride	5.9		10.0	16.1		mg/L		102	80 - 120
Fluoride	0.24		10.0	11.1		mg/L		108	80 - 120
Sulfate	17		10.0	27.9		mg/L		106	80 - 120

Lab Sample ID: MB 400-329695/20
Matrix: Water
Analysis Batch: 329695

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<0.89		1.0	0.89	mg/L			11/03/16 18:18	1
Fluoride	<0.082		0.20	0.082	mg/L			11/03/16 18:18	1
Sulfate	<0.70		1.0	0.70	mg/L			11/03/16 18:18	1

TestAmerica Pensacola

QC Sample Results

Client: Southern Company
Project/Site: CCR Plant Scherer

TestAmerica Job ID: 400-128868-1
SDG: Ash Pond

Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: LCS 400-329695/21
Matrix: Water
Analysis Batch: 329695

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloride	10.0	9.15		mg/L		91	90 - 110
Fluoride	10.0	9.99		mg/L		100	90 - 110
Sulfate	10.0	9.64		mg/L		96	90 - 110

Lab Sample ID: LCSD 400-329695/22
Matrix: Water
Analysis Batch: 329695

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
Chloride	10.0	9.29		mg/L		93	90 - 110	2	15
Fluoride	10.0	10.0		mg/L		100	90 - 110	0	15
Sulfate	10.0	9.67		mg/L		97	90 - 110	0	15

Lab Sample ID: 400-128868-9 MS
Matrix: Water
Analysis Batch: 329695

Client Sample ID: SGWC-20
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloride	11		100	109		mg/L		98	80 - 120
Fluoride	<0.82		100	106		mg/L		106	80 - 120
Sulfate	240		100	339		mg/L		103	80 - 120

Lab Sample ID: 400-128868-9 MSD
Matrix: Water
Analysis Batch: 329695

Client Sample ID: SGWC-20
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Chloride	11		100	108		mg/L		97	80 - 120	0	20
Fluoride	<0.82		100	107		mg/L		107	80 - 120	1	20
Sulfate	240		100	340		mg/L		104	80 - 120	0	20

Method: 6020 - Metals (ICP/MS)

Lab Sample ID: MB 400-328055/1-A ^5
Matrix: Water
Analysis Batch: 328746

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 328055

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0010		0.0025	0.0010	mg/L		10/25/16 09:00	10/28/16 17:53	5
Arsenic	<0.00046		0.0013	0.00046	mg/L		10/25/16 09:00	10/28/16 17:53	5
Barium	<0.00049		0.0025	0.00049	mg/L		10/25/16 09:00	10/28/16 17:53	5
Beryllium	<0.00034		0.0025	0.00034	mg/L		10/25/16 09:00	10/28/16 17:53	5
Boron	<0.021		0.050	0.021	mg/L		10/25/16 09:00	10/28/16 17:53	5
Cadmium	<0.00034		0.0025	0.00034	mg/L		10/25/16 09:00	10/28/16 17:53	5
Calcium	<0.13		0.25	0.13	mg/L		10/25/16 09:00	10/28/16 17:53	5
Chromium	<0.0011		0.0025	0.0011	mg/L		10/25/16 09:00	10/28/16 17:53	5
Cobalt	<0.00040		0.0025	0.00040	mg/L		10/25/16 09:00	10/28/16 17:53	5
Lead	<0.00035		0.0013	0.00035	mg/L		10/25/16 09:00	10/28/16 17:53	5
Lithium	<0.0032		0.0050	0.0032	mg/L		10/25/16 09:00	10/28/16 17:53	5

TestAmerica Pensacola

QC Sample Results

Client: Southern Company
Project/Site: CCR Plant Scherer

TestAmerica Job ID: 400-128868-1
SDG: Ash Pond

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

Lab Sample ID: MB 400-328055/1-A ^5
Matrix: Water
Analysis Batch: 328746

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 328055

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Molybdenum	<0.00085		0.015	0.00085	mg/L		10/25/16 09:00	10/28/16 17:53	5
Selenium	<0.00024		0.0013	0.00024	mg/L		10/25/16 09:00	10/28/16 17:53	5
Thallium	<0.000085		0.00050	0.000085	mg/L		10/25/16 09:00	10/28/16 17:53	5

Lab Sample ID: LCS 400-328055/2-A
Matrix: Water
Analysis Batch: 328746

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 328055

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	Limits
Antimony	0.0500	0.0519		mg/L		104	80 - 120
Arsenic	0.0500	0.0529		mg/L		106	80 - 120
Barium	0.0500	0.0499		mg/L		100	80 - 120
Beryllium	0.0500	0.0495		mg/L		99	80 - 120
Boron	0.100	0.0999		mg/L		100	80 - 120
Cadmium	0.0500	0.0519		mg/L		104	80 - 120
Calcium	5.00	5.11		mg/L		102	80 - 120
Chromium	0.0500	0.0512		mg/L		102	80 - 120
Cobalt	0.0500	0.0485		mg/L		97	80 - 120
Lead	0.0500	0.0451		mg/L		90	80 - 120
Lithium	0.0500	0.0521		mg/L		104	80 - 120
Molybdenum	0.0500	0.0508		mg/L		102	80 - 120
Selenium	0.0500	0.0519		mg/L		104	80 - 120
Thallium	0.0100	0.0102		mg/L		102	80 - 120

Lab Sample ID: 400-128868-7 MS
Matrix: Water
Analysis Batch: 328746

Client Sample ID: SGWC-16
Prep Type: Total Recoverable
Prep Batch: 328055

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	Limits
Antimony	<0.0010		0.0500	0.0528		mg/L		106	75 - 125
Arsenic	<0.00046		0.0500	0.0529		mg/L		106	75 - 125
Barium	0.017		0.0500	0.0684		mg/L		103	75 - 125
Beryllium	<0.00034		0.0500	0.0520		mg/L		104	75 - 125
Boron	0.55		0.100	0.658	4	mg/L		108	75 - 125
Cadmium	<0.00034		0.0500	0.0535		mg/L		107	75 - 125
Calcium	0.75		5.00	5.85		mg/L		102	75 - 125
Chromium	0.0088		0.0500	0.0598		mg/L		102	75 - 125
Cobalt	0.0034		0.0500	0.0579		mg/L		109	75 - 125
Lead	<0.00035		0.0500	0.0389		mg/L		78	75 - 125
Lithium	<0.0032		0.0500	0.0493		mg/L		99	75 - 125
Molybdenum	<0.00085		0.0500	0.0499		mg/L		100	75 - 125
Selenium	<0.00024		0.0500	0.0515		mg/L		103	75 - 125
Thallium	<0.000085		0.0100	0.0101		mg/L		101	75 - 125

QC Sample Results

Client: Southern Company
Project/Site: CCR Plant Scherer

TestAmerica Job ID: 400-128868-1
SDG: Ash Pond

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

Lab Sample ID: 400-128868-7 MSD
Matrix: Water
Analysis Batch: 328746

Client Sample ID: SGWC-16
Prep Type: Total Recoverable
Prep Batch: 328055

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Antimony	<0.0010		0.0500	0.0503		mg/L		101	75 - 125	5	20
Arsenic	<0.00046		0.0500	0.0518		mg/L		104	75 - 125	2	20
Barium	0.017		0.0500	0.0680		mg/L		103	75 - 125	1	20
Beryllium	<0.00034		0.0500	0.0510		mg/L		102	75 - 125	2	20
Boron	0.55		0.100	0.657	4	mg/L		108	75 - 125	0	20
Cadmium	<0.00034		0.0500	0.0509		mg/L		102	75 - 125	5	20
Calcium	0.75		5.00	5.83		mg/L		101	75 - 125	0	20
Chromium	0.0088		0.0500	0.0580		mg/L		98	75 - 125	3	20
Cobalt	0.0034		0.0500	0.0564		mg/L		106	75 - 125	3	20
Lead	<0.00035		0.0500	0.0379		mg/L		76	75 - 125	3	20
Lithium	<0.0032		0.0500	0.0483		mg/L		97	75 - 125	2	20
Molybdenum	<0.00085		0.0500	0.0493		mg/L		99	75 - 125	1	20
Selenium	<0.00024		0.0500	0.0525		mg/L		105	75 - 125	2	20
Thallium	<0.000085		0.0100	0.00987		mg/L		99	75 - 125	2	20

Method: 7470A - Mercury (CVAA)

Lab Sample ID: MB 400-327514/14-A
Matrix: Water
Analysis Batch: 327776

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 327514

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.000070		0.00020	0.000070	mg/L		10/20/16 09:02	10/21/16 12:09	1

Lab Sample ID: LCS 400-327514/15-A
Matrix: Water
Analysis Batch: 327776

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 327514

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	Limits
Mercury	0.00101	0.000980		mg/L		97	80 - 120

Lab Sample ID: 400-128868-8 MS
Matrix: Water
Analysis Batch: 327776

Client Sample ID: FD-2 (AP)
Prep Type: Total/NA
Prep Batch: 327514

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	Limits
Mercury	<0.000070		0.00201	0.00201		mg/L		100	80 - 120

Lab Sample ID: 400-128868-8 MSD
Matrix: Water
Analysis Batch: 327776

Client Sample ID: FD-2 (AP)
Prep Type: Total/NA
Prep Batch: 327514

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Mercury	<0.000070		0.00201	0.00199		mg/L		99	80 - 120	1	20

QC Sample Results

Client: Southern Company
Project/Site: CCR Plant Scherer

TestAmerica Job ID: 400-128868-1
SDG: Ash Pond

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

Lab Sample ID: MB 400-327877/1
Matrix: Water
Analysis Batch: 327877

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	<3.4		5.0	3.4	mg/L			10/22/16 16:28	1

Lab Sample ID: LCS 400-327877/2
Matrix: Water
Analysis Batch: 327877

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: 400-128789-A-1 DU
Matrix: Water
Analysis Batch: 327877

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	4100		4080		mg/L		0.5	5

Lab Sample ID: MB 400-327879/1
Matrix: Water
Analysis Batch: 327879

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	<3.4		5.0	3.4	mg/L			10/22/16 17:03	1

Lab Sample ID: LCS 400-327879/2
Matrix: Water
Analysis Batch: 327879

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	258		mg/L		88	78 - 122

Lab Sample ID: 400-128868-2 DU
Matrix: Water
Analysis Batch: 327879

Client Sample ID: SGWC-15
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Total Dissolved Solids	320		318		mg/L		1	5

Lab Sample ID: MB 400-328013/1
Matrix: Water
Analysis Batch: 328013

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	<3.4		5.0	3.4	mg/L			10/24/16 14:33	1

Lab Sample ID: LCS 400-328013/2
Matrix: Water
Analysis Batch: 328013

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	290		mg/L		99	78 - 122

TestAmerica Pensacola

QC Sample Results

Client: Southern Company
 Project/Site: CCR Plant Scherer

TestAmerica Job ID: 400-128868-1
 SDG: Ash Pond

Lab Sample ID: 400-128868-7 DU
Matrix: Water
Analysis Batch: 328013

Client Sample ID: SGWC-16
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Total Dissolved Solids	60		62.0		mg/L		3	5

Lab Sample ID: 400-128868-12 DU
Matrix: Water
Analysis Batch: 328013

Client Sample ID: SGWC-19
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Total Dissolved Solids	340		336		mg/L		0	5

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

TestAmerica Pensacola
 3355 McLemore Drive
 Pensacola, FL 32514
 Phone (850) 474-1001 Fax (850) 478-2671

Chain of Custody Record

TestAmerica
 THE LEADER IN ENVIRONMENTAL TESTING

Client Information
 Client Contact: Ben Hodges
 Phone: 912-258-7457
 Email: cheyenne.whitmire@testamericainc.com

Company: Southern Company
 Address: 241 Ralph McGill Blvd SE B10185
 City: Atlanta
 State: GA, Zip: 30308
 PO #: GPC10624814
 Project #: 40007041
 Site: Ash Pond

Lab P/N: Whitmire, Cheyenne R
 E-Mail: cheyenne.whitmire@testamericainc.com

Carrier Tracking No(s): 400-57303-24790.8
 Page: Page 8 of 8
 Job #:

Analysis Requested

Sample ID	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=leachate, A=air)	Field Filtered Sample (Yes or No)	Particulates/MSD (Yes or No)	2540C-TDS, 500-ORGM, 280-Chloride, Fluoride, Sulfate	6020-Sp.A, Ba, B, Be, Ca, Cd, Cr, Co, Pb, Li, Mn, Se, Ti, 7470A-Hg	9315_Ra226, 9320_Ra228, Ra226Ra228_GFPc	Total Number of containers	Special Instructions/Note:
SGWC-7	10/18/16	1013	G	Water	N	N	1	1	1	3	
SGWC-15	10/18/16	1015	G	Water	N	N	1	1	1	3	
EB-2(AP)	10/18/16	0807	G	Water	N	N	1	1	1	3	
SGWC-21	10/18/16	1025	G	Water	N	N	1	1	1	3	
EB-3(AP)	10/18/16	0817	G	Water	N	N	1	1	1	3	
FD-3(AP)	10/18/16	--	G	Water	N	N	1	1	1	3	
SGWC-16	10/18/16	1150	G	Water	N	N	1	1	1	3	
FD-2(AP)	10/18/16	--	G	Water	N	N	1	1	1	3	
SGWC-20	10/18/16	1255	G	Water	N	N	1	1	1	3	
SGWC-23	10/18/16	1323	G	Water	N	N	1	1	2	4	1 Extra Radium
SGWC-9	10/18/16	1515	G	Water	N	N	1	1	1	3	
SGWC-19	10/18/16	1405	G	Water	N	N	1	1	1	3	
SGWC-22	10/18/16	1641	G	Water	N	N	1	1	1	3	
FB-2(AP)	10/18/16	1256	G	Water	N	N	1	1	1	3	

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
 Other:

Preservation Codes:
 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
 X - EDTA
 Y - EDA
 Z - other (specify)

Special Instructions/Note:

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

Empty Kit Relinquished by: Ben Hodges
 Relinquished by: _____
 Relinquished by: _____
 Relinquished by: _____

Method of Shipment: _____
 Date/Time: 10/19/16 0819 AM
 Company: _____
 Date/Time: _____
 Company: _____
 Date/Time: _____
 Company: _____

Deliverable Requested: Non-Hazard Flammable Skin Irritant Poison B Unknown Radiological

Custody Seals Intact: Custody Seal No.: 743047, 743050, 743048, 743049, 1898645
 Temperature: 1.3°C, 4.2°C, 4.4°C, 4.6°C, 5.7°C
 JRS

Login Sample Receipt Checklist

Client: Southern Company

Job Number: 400-128868-1

SDG Number: Ash Pond

Login Number: 128868

List Number: 1

Creator: Siddoway, Benjamin

List Source: TestAmerica Pensacola

Question	Answer	Comment
Radioactivity wasn't checked or is \leq background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	True	743047, 743048, 743049, 743050, 898645
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, 4.2°C, 4.4°C, 4.6°C, 5.7°C IR-5
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 <math><6\text{mm}</math> (1/4").	N/A	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

Certification Summary

Client: Southern Company
 Project/Site: CCR Plant Scherer

TestAmerica Job ID: 400-128868-1
 SDG: Ash Pond

Laboratory: TestAmerica Pensacola

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

Authority	Program	EPA Region	Certification ID	Expiration Date
Alabama	State Program	4	40150	06-30-17
Arizona	State Program	9	AZ0710	01-11-17
Arkansas DEQ	State Program	6	88-0689	09-01-17
California	ELAP	9	2510	03-31-18
Florida	NELAP	4	E81010	06-30-17
Georgia	State Program	4	N/A	06-30-17
Illinois	NELAP	5	200041	10-09-17
Iowa	State Program	7	367	08-01-18
Kansas	NELAP	7	E-10253	10-31-17
Kentucky (UST)	State Program	4	53	06-30-17
Kentucky (WW)	State Program	4	98030	12-31-16
Louisiana	NELAP	6	30976	06-30-17
Maryland	State Program	3	233	09-30-17
Massachusetts	State Program	1	M-FL094	06-30-17
Michigan	State Program	5	9912	05-06-17
New Jersey	NELAP	2	FL006	06-30-17
North Carolina (WW/SW)	State Program	4	314	12-31-16
Oklahoma	State Program	6	9810	08-31-17
Pennsylvania	NELAP	3	68-00467	01-31-17
Rhode Island	State Program	1	LAO00307	12-30-16
South Carolina	State Program	4	96026	06-30-16 *
Tennessee	State Program	4	TN02907	06-30-17
Texas	NELAP	6	T104704286-16-10	09-30-17
USDA	Federal		P330-16-00172	05-24-19
Virginia	NELAP	3	460166	06-14-17
Washington	State Program	10	C915	05-15-17
West Virginia DEP	State Program	3	136	06-30-17

* Certification renewal pending - certification considered valid.

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

TestAmerica Laboratories, Inc.

TestAmerica Pensacola

3355 McLemore Drive

Pensacola, FL 32514

Tel: (850)474-1001

TestAmerica Job ID: 400-128868-2

TestAmerica Sample Delivery Group: Ash Pond

Client Project/Site: CCR Plant Scherer

For:

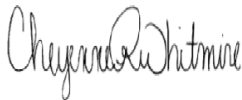
Southern Company

241 Ralph McGill Blvd SE

B10185

Atlanta, Georgia 30308

Attn: Joju Abraham



Authorized for release by:

11/29/2016 11:06:27 AM

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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.

1

2

3

4

5

6

7

8

9

10

11

12

13



Table of Contents

Cover Page	1
Table of Contents	2
Case Narrative	3
Method Summary	4
Sample Summary	5
Client Sample Results	6
Definitions	20
Chronicle	21
QC Association	25
QC Sample Results	26
Chain of Custody	30
Receipt Checklists	31
Certification Summary	32

Case Narrative

Client: Southern Company
Project/Site: CCR Plant Scherer

TestAmerica Job ID: 400-128868-2
SDG: Ash Pond

Job ID: 400-128868-2

Laboratory: TestAmerica Pensacola

Narrative

Job Narrative 400-128868-2

RAD

Method(s) PrecSep_0: Radium-228 Prep Batch 160-275812: Insufficient sample volume was available to perform a sample duplicate (DUP) for the following samples: SGWC-7 (400-128868-1) and EB-3 (AP) (400-128868-5). A laboratory control sample/ laboratory control sample duplicate (LCS/LCSD) were prepared instead to demonstrate batch precision.

Method(s) PrecSep_0: Ra226 prep batch 160- 275812: 2mL of Y carrier was added to all samples instead of 1mL: SGWC-7 (400-128868-1) and EB-3 (AP) (400-128868-5).

Method(s) PrecSep-21: Ra226 prep batch 160-275804: 2mL of Y carrier was added to all samples instead of 1mL: SGWC-7 (400-128868-1) and EB-3 (AP) (400-128868-5).

Method(s) PrecSep-21: Radium-226 Prep Batch 160-275804: Insufficient sample volume was available to perform a sample duplicate (DUP) for the following samples: SGWC-7 (400-128868-1) and EB-3 (AP) (400-128868-5). A laboratory control sample/ laboratory control sample duplicate (LCS/LCSD) were prepared instead to demonstrate batch precision.



Method Summary

Client: Southern Company
Project/Site: CCR Plant Scherer

TestAmerica Job ID: 400-128868-2
SDG: Ash Pond

Method	Method Description	Protocol	Laboratory
9315	Radium-226 (GFPC)	SW846	TAL SL
9320	Radium-228 (GFPC)	SW846	TAL SL
Ra226_Ra228	Combined Radium-226 and Radium-228	TAL-STL	TAL SL

Protocol References:

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:

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



Sample Summary

Client: Southern Company
Project/Site: CCR Plant Scherer

TestAmerica Job ID: 400-128868-2
SDG: Ash Pond

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
400-128868-1	SGWC-7	Water	10/18/16 10:13	10/19/16 08:19
400-128868-2	SGWC-15	Water	10/18/16 10:15	10/19/16 08:19
400-128868-3	EB-2 (AP)	Water	10/18/16 08:07	10/19/16 08:19
400-128868-4	SGWC-21	Water	10/18/16 10:25	10/19/16 08:19
400-128868-5	EB-3 (AP)	Water	10/18/16 08:17	10/19/16 08:19
400-128868-6	FD-3 (AP)	Water	10/18/16 00:00	10/19/16 08:19
400-128868-7	SGWC-16	Water	10/18/16 11:50	10/19/16 08:19
400-128868-8	FD-2 (AP)	Water	10/18/16 00:00	10/19/16 08:19
400-128868-9	SGWC-20	Water	10/18/16 12:55	10/19/16 08:19
400-128868-10	SGWC-23	Water	10/18/16 13:23	10/19/16 08:19
400-128868-11	SGWC-9	Water	10/18/16 15:15	10/19/16 08:19
400-128868-12	SGWC-19	Water	10/18/16 14:05	10/19/16 08:19
400-128868-13	SGWC-22	Water	10/18/16 16:41	10/19/16 08:19
400-128868-14	FB-2 (AP)	Water	10/18/16 12:56	10/19/16 08:19

Client Sample Results

Client: Southern Company
Project/Site: CCR Plant Scherer

TestAmerica Job ID: 400-128868-2
SDG: Ash Pond

Client Sample ID: SGWC-7

Lab Sample ID: 400-128868-1

Date Collected: 10/18/16 10:13

Matrix: Water

Date Received: 10/19/16 08:19

Method: 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.0583	U	0.156	0.156	1.00	0.288	pCi/L	10/24/16 12:31	11/19/16 17:24	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	87.2		40 - 110					10/24/16 12:31	11/19/16 17:24	1

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.394	U	0.259	0.262	1.00	0.398	pCi/L	10/24/16 13:37	11/18/16 14:35	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	87.2		40 - 110					10/24/16 13:37	11/18/16 14:35	1
Y Carrier	83.7		40 - 110					10/24/16 13:37	11/18/16 14:35	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	0.453		0.303	0.305	5.00	0.398	pCi/L		11/21/16 07:53	1

Client Sample Results

Client: Southern Company
Project/Site: CCR Plant Scherer

TestAmerica Job ID: 400-128868-2
SDG: Ash Pond

Client Sample ID: SGWC-15

Lab Sample ID: 400-128868-2

Date Collected: 10/18/16 10:15

Matrix: Water

Date Received: 10/19/16 08:19

Method: 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.153	U	0.208	0.209	1.00	0.350	pCi/L	10/21/16 13:17	11/19/16 13:30	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	70.1		40 - 110					10/21/16 13:17	11/19/16 13:30	1

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.0173	U	0.309	0.309	1.00	0.549	pCi/L	10/21/16 14:15	11/18/16 14:42	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	70.1		40 - 110					10/21/16 14:15	11/18/16 14:42	1
Y Carrier	85.6		40 - 110					10/21/16 14:15	11/18/16 14:42	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	0.171	U	0.373	0.373	5.00	0.549	pCi/L		11/21/16 07:53	1

Client Sample Results

Client: Southern Company
Project/Site: CCR Plant Scherer

TestAmerica Job ID: 400-128868-2
SDG: Ash Pond

Client Sample ID: EB-2 (AP)

Lab Sample ID: 400-128868-3

Date Collected: 10/18/16 08:07

Matrix: Water

Date Received: 10/19/16 08:19

Method: 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.0934	U	0.180	0.180	1.00	0.319	pCi/L	10/21/16 13:17	11/19/16 13:30	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	85.4		40 - 110					10/21/16 13:17	11/19/16 13:30	1

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.0558	U	0.251	0.251	1.00	0.439	pCi/L	10/21/16 14:15	11/18/16 14:41	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	86.0		40 - 110					10/21/16 14:15	11/18/16 14:41	1
Y Carrier	85.2		40 - 110					10/21/16 14:15	11/18/16 14:41	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	0.149	U	0.309	0.309	5.00	0.439	pCi/L		11/21/16 07:53	1

Client Sample Results

Client: Southern Company
Project/Site: CCR Plant Scherer

TestAmerica Job ID: 400-128868-2
SDG: Ash Pond

Client Sample ID: SGWC-21

Lab Sample ID: 400-128868-4

Date Collected: 10/18/16 10:25

Matrix: Water

Date Received: 10/19/16 08:19

Method: 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.277	U	0.220	0.222	1.00	0.329	pCi/L	10/21/16 13:17	11/19/16 13:30	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	84.0		40 - 110					10/21/16 13:17	11/19/16 13:30	1

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.315	U	0.299	0.300	1.00	0.484	pCi/L	10/21/16 14:15	11/18/16 14:41	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	84.0		40 - 110					10/21/16 14:15	11/18/16 14:41	1
Y Carrier	86.4		40 - 110					10/21/16 14:15	11/18/16 14:41	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	0.593		0.371	0.373	5.00	0.484	pCi/L		11/21/16 07:53	1

Client Sample Results

Client: Southern Company
Project/Site: CCR Plant Scherer

TestAmerica Job ID: 400-128868-2
SDG: Ash Pond

Client Sample ID: EB-3 (AP)

Lab Sample ID: 400-128868-5

Date Collected: 10/18/16 08:17

Matrix: Water

Date Received: 10/19/16 08:19

Method: 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.0328	U	0.162	0.162	1.00	0.308	pCi/L	10/24/16 12:31	11/19/16 17:25	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	90.6		40 - 110					10/24/16 12:31	11/19/16 17:25	1

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.0730	U	0.234	0.234	1.00	0.406	pCi/L	10/24/16 13:37	11/18/16 14:35	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	90.6		40 - 110					10/24/16 13:37	11/18/16 14:35	1
Y Carrier	85.6		40 - 110					10/24/16 13:37	11/18/16 14:35	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	0.106	U	0.284	0.284	5.00	0.406	pCi/L		11/21/16 07:53	1

Client Sample Results

Client: Southern Company
Project/Site: CCR Plant Scherer

TestAmerica Job ID: 400-128868-2
SDG: Ash Pond

Client Sample ID: FD-3 (AP)

Lab Sample ID: 400-128868-6

Date Collected: 10/18/16 00:00

Matrix: Water

Date Received: 10/19/16 08:19

Method: 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.258	U	0.201	0.202	1.00	0.290	pCi/L	10/21/16 13:17	11/19/16 13:31	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	81.2		40 - 110					10/21/16 13:17	11/19/16 13:31	1

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.673		0.319	0.325	1.00	0.466	pCi/L	10/21/16 14:15	11/18/16 14:41	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	81.2		40 - 110					10/21/16 14:15	11/18/16 14:41	1
Y Carrier	86.0		40 - 110					10/21/16 14:15	11/18/16 14:41	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	0.932		0.376	0.382	5.00	0.466	pCi/L		11/21/16 07:53	1

Client Sample Results

Client: Southern Company
Project/Site: CCR Plant Scherer

TestAmerica Job ID: 400-128868-2
SDG: Ash Pond

Client Sample ID: SGWC-16

Lab Sample ID: 400-128868-7

Date Collected: 10/18/16 11:50

Matrix: Water

Date Received: 10/19/16 08:19

Method: 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.0428	U	0.151	0.151	1.00	0.289	pCi/L	10/21/16 13:17	11/19/16 13:31	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	85.8		40 - 110					10/21/16 13:17	11/19/16 13:31	1

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	-0.00234	U	0.260	0.260	1.00	0.463	pCi/L	10/21/16 14:15	11/18/16 14:41	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	85.8		40 - 110					10/21/16 14:15	11/18/16 14:41	1
Y Carrier	86.4		40 - 110					10/21/16 14:15	11/18/16 14:41	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	0.0404	U	0.301	0.301	5.00	0.463	pCi/L		11/21/16 07:53	1

Client Sample Results

Client: Southern Company
Project/Site: CCR Plant Scherer

TestAmerica Job ID: 400-128868-2
SDG: Ash Pond

Client Sample ID: FD-2 (AP)

Lab Sample ID: 400-128868-8

Date Collected: 10/18/16 00:00

Matrix: Water

Date Received: 10/19/16 08:19

Method: 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.186	U	0.185	0.186	1.00	0.290	pCi/L	10/21/16 13:17	11/19/16 13:31	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	82.9		40 - 110					10/21/16 13:17	11/19/16 13:31	1

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	-0.0442	U	0.260	0.260	1.00	0.471	pCi/L	10/21/16 14:15	11/18/16 14:41	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	82.9		40 - 110					10/21/16 14:15	11/18/16 14:41	1
Y Carrier	86.0		40 - 110					10/21/16 14:15	11/18/16 14:41	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	0.142	U	0.319	0.320	5.00	0.471	pCi/L		11/21/16 07:53	1

Client Sample Results

Client: Southern Company
Project/Site: CCR Plant Scherer

TestAmerica Job ID: 400-128868-2
SDG: Ash Pond

Client Sample ID: SGWC-20

Lab Sample ID: 400-128868-9

Date Collected: 10/18/16 12:55

Matrix: Water

Date Received: 10/19/16 08:19

Method: 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.177	U	0.174	0.175	1.00	0.268	pCi/L	10/21/16 13:17	11/19/16 13:31	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	82.9		40 - 110					10/21/16 13:17	11/19/16 13:31	1

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.563		0.279	0.284	1.00	0.410	pCi/L	10/21/16 14:15	11/18/16 14:41	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	82.9		40 - 110					10/21/16 14:15	11/18/16 14:41	1
Y Carrier	89.7		40 - 110					10/21/16 14:15	11/18/16 14:41	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	0.741		0.329	0.334	5.00	0.410	pCi/L		11/21/16 07:53	1

Client Sample Results

Client: Southern Company
Project/Site: CCR Plant Scherer

TestAmerica Job ID: 400-128868-2
SDG: Ash Pond

Client Sample ID: SGWC-23

Lab Sample ID: 400-128868-10

Date Collected: 10/18/16 13:23

Matrix: Water

Date Received: 10/19/16 08:19

Method: 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.760		0.280	0.288	1.00	0.270	pCi/L	10/21/16 13:17	11/19/16 13:31	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	80.6		40 - 110					10/21/16 13:17	11/19/16 13:31	1

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.121	U	0.266	0.266	1.00	0.456	pCi/L	10/21/16 14:15	11/18/16 14:41	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	80.6		40 - 110					10/21/16 14:15	11/18/16 14:41	1
Y Carrier	84.5		40 - 110					10/21/16 14:15	11/18/16 14:41	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	0.881		0.386	0.392	5.00	0.456	pCi/L		11/21/16 07:53	1

Client Sample Results

Client: Southern Company
Project/Site: CCR Plant Scherer

TestAmerica Job ID: 400-128868-2
SDG: Ash Pond

Client Sample ID: SGWC-9

Lab Sample ID: 400-128868-11

Date Collected: 10/18/16 15:15

Matrix: Water

Date Received: 10/19/16 08:19

Method: 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.251	U	0.188	0.190	1.00	0.270	pCi/L	10/21/16 13:17	11/19/16 13:31	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	81.2		40 - 110					10/21/16 13:17	11/19/16 13:31	1

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.270	U	0.263	0.264	1.00	0.426	pCi/L	10/21/16 14:15	11/18/16 14:40	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	81.2		40 - 110					10/21/16 14:15	11/18/16 14:40	1
Y Carrier	87.9		40 - 110					10/21/16 14:15	11/18/16 14:40	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	0.521		0.324	0.325	5.00	0.426	pCi/L		11/21/16 07:53	1

Client Sample Results

Client: Southern Company
Project/Site: CCR Plant Scherer

TestAmerica Job ID: 400-128868-2
SDG: Ash Pond

Client Sample ID: SGWC-19

Lab Sample ID: 400-128868-12

Date Collected: 10/18/16 14:05

Matrix: Water

Date Received: 10/19/16 08:19

Method: 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.0173	U	0.127	0.127	1.00	0.257	pCi/L	10/21/16 13:17	11/19/16 17:10	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	83.5		40 - 110					10/21/16 13:17	11/19/16 17:10	1

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.334	U	0.239	0.241	1.00	0.370	pCi/L	10/21/16 14:15	11/18/16 14:40	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	83.5		40 - 110					10/21/16 14:15	11/18/16 14:40	1
Y Carrier	89.3		40 - 110					10/21/16 14:15	11/18/16 14:40	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	0.352	U	0.270	0.272	5.00	0.370	pCi/L		11/21/16 07:53	1

Client Sample Results

Client: Southern Company
Project/Site: CCR Plant Scherer

TestAmerica Job ID: 400-128868-2
SDG: Ash Pond

Client Sample ID: SGWC-22

Lab Sample ID: 400-128868-13

Date Collected: 10/18/16 16:41

Matrix: Water

Date Received: 10/19/16 08:19

Method: 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.0167	U	0.150	0.150	1.00	0.296	pCi/L	10/21/16 13:17	11/19/16 17:10	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	86.3		40 - 110					10/21/16 13:17	11/19/16 17:10	1

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.259	U	0.217	0.218	1.00	0.343	pCi/L	10/21/16 14:15	11/18/16 14:40	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	86.3		40 - 110					10/21/16 14:15	11/18/16 14:40	1
Y Carrier	86.4		40 - 110					10/21/16 14:15	11/18/16 14:40	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	0.276	U	0.264	0.265	5.00	0.343	pCi/L		11/21/16 07:53	1

Client Sample Results

Client: Southern Company
Project/Site: CCR Plant Scherer

TestAmerica Job ID: 400-128868-2
SDG: Ash Pond

Client Sample ID: FB-2 (AP)

Lab Sample ID: 400-128868-14

Date Collected: 10/18/16 12:56

Matrix: Water

Date Received: 10/19/16 08:19

Method: 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.0400	U	0.144	0.144	1.00	0.278	pCi/L	10/21/16 13:17	11/19/16 17:10	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	84.0		40 - 110					10/21/16 13:17	11/19/16 17:10	1

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.114	U	0.255	0.255	1.00	0.437	pCi/L	10/21/16 14:15	11/18/16 14:40	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	84.0		40 - 110					10/21/16 14:15	11/18/16 14:40	1
Y Carrier	85.2		40 - 110					10/21/16 14:15	11/18/16 14:40	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	0.154	U	0.293	0.293	5.00	0.437	pCi/L		11/21/16 07:53	1

Definitions/Glossary

Client: Southern Company
Project/Site: CCR Plant Scherer

TestAmerica Job ID: 400-128868-2
SDG: Ash Pond

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
CNF	Contains no Free Liquid
DER	Duplicate error ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision level concentration
MDA	Minimum detectable activity
EDL	Estimated Detection Limit
MDC	Minimum detectable concentration
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
NC	Not Calculated
ND	Not detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RER	Relative error ratio
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)

Lab Chronicle

Client: Southern Company
Project/Site: CCR Plant Scherer

TestAmerica Job ID: 400-128868-2
SDG: Ash Pond

Client Sample ID: SGWC-7

Date Collected: 10/18/16 10:13

Date Received: 10/19/16 08:19

Lab Sample ID: 400-128868-1

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			275804	10/24/16 12:31	AS	TAL SL
Total/NA	Analysis	9315		1	280039	11/19/16 17:24	RTM	TAL SL
Total/NA	Prep	PrecSep_0			275812	10/24/16 13:37	AS	TAL SL
Total/NA	Analysis	9320		1	280010	11/18/16 14:35	RTM	TAL SL
Total/NA	Analysis	Ra226_Ra228		1	280189	11/21/16 07:53	RTM	TAL SL

Client Sample ID: SGWC-15

Date Collected: 10/18/16 10:15

Date Received: 10/19/16 08:19

Lab Sample ID: 400-128868-2

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			275561	10/21/16 13:17	ASB	TAL SL
Total/NA	Analysis	9315		1	280040	11/19/16 13:30	RTM	TAL SL
Total/NA	Prep	PrecSep_0			275615	10/21/16 14:15	ASB	TAL SL
Total/NA	Analysis	9320		1	280012	11/18/16 14:42	RTM	TAL SL
Total/NA	Analysis	Ra226_Ra228		1	280189	11/21/16 07:53	RTM	TAL SL

Client Sample ID: EB-2 (AP)

Date Collected: 10/18/16 08:07

Date Received: 10/19/16 08:19

Lab Sample ID: 400-128868-3

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			275561	10/21/16 13:17	ASB	TAL SL
Total/NA	Analysis	9315		1	280040	11/19/16 13:30	RTM	TAL SL
Total/NA	Prep	PrecSep_0			275615	10/21/16 14:15	ASB	TAL SL
Total/NA	Analysis	9320		1	280012	11/18/16 14:41	RTM	TAL SL
Total/NA	Analysis	Ra226_Ra228		1	280189	11/21/16 07:53	RTM	TAL SL

Client Sample ID: SGWC-21

Date Collected: 10/18/16 10:25

Date Received: 10/19/16 08:19

Lab Sample ID: 400-128868-4

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			275561	10/21/16 13:17	ASB	TAL SL
Total/NA	Analysis	9315		1	280040	11/19/16 13:30	RTM	TAL SL
Total/NA	Prep	PrecSep_0			275615	10/21/16 14:15	ASB	TAL SL
Total/NA	Analysis	9320		1	280012	11/18/16 14:41	RTM	TAL SL
Total/NA	Analysis	Ra226_Ra228		1	280189	11/21/16 07:53	RTM	TAL SL

Lab Chronicle

Client: Southern Company
Project/Site: CCR Plant Scherer

TestAmerica Job ID: 400-128868-2
SDG: Ash Pond

Client Sample ID: EB-3 (AP)

Lab Sample ID: 400-128868-5

Date Collected: 10/18/16 08:17

Matrix: Water

Date Received: 10/19/16 08:19

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			275804	10/24/16 12:31	AS	TAL SL
Total/NA	Analysis	9315		1	280039	11/19/16 17:25	RTM	TAL SL
Total/NA	Prep	PrecSep_0			275812	10/24/16 13:37	AS	TAL SL
Total/NA	Analysis	9320		1	280010	11/18/16 14:35	RTM	TAL SL
Total/NA	Analysis	Ra226_Ra228		1	280189	11/21/16 07:53	RTM	TAL SL

Client Sample ID: FD-3 (AP)

Lab Sample ID: 400-128868-6

Date Collected: 10/18/16 00:00

Matrix: Water

Date Received: 10/19/16 08:19

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			275561	10/21/16 13:17	ASB	TAL SL
Total/NA	Analysis	9315		1	280040	11/19/16 13:31	RTM	TAL SL
Total/NA	Prep	PrecSep_0			275615	10/21/16 14:15	ASB	TAL SL
Total/NA	Analysis	9320		1	280012	11/18/16 14:41	RTM	TAL SL
Total/NA	Analysis	Ra226_Ra228		1	280189	11/21/16 07:53	RTM	TAL SL

Client Sample ID: SGWC-16

Lab Sample ID: 400-128868-7

Date Collected: 10/18/16 11:50

Matrix: Water

Date Received: 10/19/16 08:19

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			275561	10/21/16 13:17	ASB	TAL SL
Total/NA	Analysis	9315		1	280040	11/19/16 13:31	RTM	TAL SL
Total/NA	Prep	PrecSep_0			275615	10/21/16 14:15	ASB	TAL SL
Total/NA	Analysis	9320		1	280012	11/18/16 14:41	RTM	TAL SL
Total/NA	Analysis	Ra226_Ra228		1	280189	11/21/16 07:53	RTM	TAL SL

Client Sample ID: FD-2 (AP)

Lab Sample ID: 400-128868-8

Date Collected: 10/18/16 00:00

Matrix: Water

Date Received: 10/19/16 08:19

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			275561	10/21/16 13:17	ASB	TAL SL
Total/NA	Analysis	9315		1	280040	11/19/16 13:31	RTM	TAL SL
Total/NA	Prep	PrecSep_0			275615	10/21/16 14:15	ASB	TAL SL
Total/NA	Analysis	9320		1	280012	11/18/16 14:41	RTM	TAL SL
Total/NA	Analysis	Ra226_Ra228		1	280189	11/21/16 07:53	RTM	TAL SL

TestAmerica Pensacola

Lab Chronicle

Client: Southern Company
Project/Site: CCR Plant Scherer

TestAmerica Job ID: 400-128868-2
SDG: Ash Pond

Client Sample ID: SGWC-20

Lab Sample ID: 400-128868-9

Date Collected: 10/18/16 12:55

Matrix: Water

Date Received: 10/19/16 08:19

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			275561	10/21/16 13:17	ASB	TAL SL
Total/NA	Analysis	9315		1	280040	11/19/16 13:31	RTM	TAL SL
Total/NA	Prep	PrecSep_0			275615	10/21/16 14:15	ASB	TAL SL
Total/NA	Analysis	9320		1	280012	11/18/16 14:41	RTM	TAL SL
Total/NA	Analysis	Ra226_Ra228		1	280189	11/21/16 07:53	RTM	TAL SL

Client Sample ID: SGWC-23

Lab Sample ID: 400-128868-10

Date Collected: 10/18/16 13:23

Matrix: Water

Date Received: 10/19/16 08:19

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			275561	10/21/16 13:17	ASB	TAL SL
Total/NA	Analysis	9315		1	280040	11/19/16 13:31	RTM	TAL SL
Total/NA	Prep	PrecSep_0			275615	10/21/16 14:15	ASB	TAL SL
Total/NA	Analysis	9320		1	280012	11/18/16 14:41	RTM	TAL SL
Total/NA	Analysis	Ra226_Ra228		1	280189	11/21/16 07:53	RTM	TAL SL

Client Sample ID: SGWC-9

Lab Sample ID: 400-128868-11

Date Collected: 10/18/16 15:15

Matrix: Water

Date Received: 10/19/16 08:19

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			275561	10/21/16 13:17	ASB	TAL SL
Total/NA	Analysis	9315		1	280040	11/19/16 13:31	RTM	TAL SL
Total/NA	Prep	PrecSep_0			275615	10/21/16 14:15	ASB	TAL SL
Total/NA	Analysis	9320		1	280012	11/18/16 14:40	RTM	TAL SL
Total/NA	Analysis	Ra226_Ra228		1	280189	11/21/16 07:53	RTM	TAL SL

Client Sample ID: SGWC-19

Lab Sample ID: 400-128868-12

Date Collected: 10/18/16 14:05

Matrix: Water

Date Received: 10/19/16 08:19

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			275561	10/21/16 13:17	ASB	TAL SL
Total/NA	Analysis	9315		1	280042	11/19/16 17:10	RTM	TAL SL
Total/NA	Prep	PrecSep_0			275615	10/21/16 14:15	ASB	TAL SL
Total/NA	Analysis	9320		1	280012	11/18/16 14:40	RTM	TAL SL
Total/NA	Analysis	Ra226_Ra228		1	280189	11/21/16 07:53	RTM	TAL SL

Lab Chronicle

Client: Southern Company
Project/Site: CCR Plant Scherer

TestAmerica Job ID: 400-128868-2
SDG: Ash Pond

Client Sample ID: SGWC-22

Lab Sample ID: 400-128868-13

Date Collected: 10/18/16 16:41

Matrix: Water

Date Received: 10/19/16 08:19

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			275561	10/21/16 13:17	ASB	TAL SL
Total/NA	Analysis	9315		1	280042	11/19/16 17:10	RTM	TAL SL
Total/NA	Prep	PrecSep_0			275615	10/21/16 14:15	ASB	TAL SL
Total/NA	Analysis	9320		1	280012	11/18/16 14:40	RTM	TAL SL
Total/NA	Analysis	Ra226_Ra228		1	280189	11/21/16 07:53	RTM	TAL SL

Client Sample ID: FB-2 (AP)

Lab Sample ID: 400-128868-14

Date Collected: 10/18/16 12:56

Matrix: Water

Date Received: 10/19/16 08:19

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			275561	10/21/16 13:17	ASB	TAL SL
Total/NA	Analysis	9315		1	280042	11/19/16 17:10	RTM	TAL SL
Total/NA	Prep	PrecSep_0			275615	10/21/16 14:15	ASB	TAL SL
Total/NA	Analysis	9320		1	280012	11/18/16 14:40	RTM	TAL SL
Total/NA	Analysis	Ra226_Ra228		1	280189	11/21/16 07:53	RTM	TAL SL

Laboratory References:

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

QC Association Summary

Client: Southern Company
Project/Site: CCR Plant Scherer

TestAmerica Job ID: 400-128868-2
SDG: Ash Pond

Rad

Prep Batch: 275561

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-128868-2	SGWC-15	Total/NA	Water	PrecSep-21	
400-128868-3	EB-2 (AP)	Total/NA	Water	PrecSep-21	
400-128868-4	SGWC-21	Total/NA	Water	PrecSep-21	
400-128868-6	FD-3 (AP)	Total/NA	Water	PrecSep-21	
400-128868-7	SGWC-16	Total/NA	Water	PrecSep-21	
400-128868-8	FD-2 (AP)	Total/NA	Water	PrecSep-21	
400-128868-9	SGWC-20	Total/NA	Water	PrecSep-21	
400-128868-10	SGWC-23	Total/NA	Water	PrecSep-21	
400-128868-11	SGWC-9	Total/NA	Water	PrecSep-21	
400-128868-12	SGWC-19	Total/NA	Water	PrecSep-21	
400-128868-13	SGWC-22	Total/NA	Water	PrecSep-21	
400-128868-14	FB-2 (AP)	Total/NA	Water	PrecSep-21	
MB 160-275561/1-A	Method Blank	Total/NA	Water	PrecSep-21	
LCS 160-275561/2-A	Lab Control Sample	Total/NA	Water	PrecSep-21	
400-128868-10 MS	SGWC-23	Total/NA	Water	PrecSep-21	
400-128868-10 MSD	SGWC-23	Total/NA	Water	PrecSep-21	

Prep Batch: 275615

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-128868-2	SGWC-15	Total/NA	Water	PrecSep_0	
400-128868-3	EB-2 (AP)	Total/NA	Water	PrecSep_0	
400-128868-4	SGWC-21	Total/NA	Water	PrecSep_0	
400-128868-6	FD-3 (AP)	Total/NA	Water	PrecSep_0	
400-128868-7	SGWC-16	Total/NA	Water	PrecSep_0	
400-128868-8	FD-2 (AP)	Total/NA	Water	PrecSep_0	
400-128868-9	SGWC-20	Total/NA	Water	PrecSep_0	
400-128868-10	SGWC-23	Total/NA	Water	PrecSep_0	
400-128868-11	SGWC-9	Total/NA	Water	PrecSep_0	
400-128868-12	SGWC-19	Total/NA	Water	PrecSep_0	
400-128868-13	SGWC-22	Total/NA	Water	PrecSep_0	
400-128868-14	FB-2 (AP)	Total/NA	Water	PrecSep_0	
MB 160-275615/1-A	Method Blank	Total/NA	Water	PrecSep_0	
LCS 160-275615/2-A	Lab Control Sample	Total/NA	Water	PrecSep_0	
400-128868-10 MS	SGWC-23	Total/NA	Water	PrecSep_0	
400-128868-10 MSD	SGWC-23	Total/NA	Water	PrecSep_0	

Prep Batch: 275804

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-128868-1	SGWC-7	Total/NA	Water	PrecSep-21	
400-128868-5	EB-3 (AP)	Total/NA	Water	PrecSep-21	
MB 160-275804/1-A	Method Blank	Total/NA	Water	PrecSep-21	
LCS 160-275804/2-A	Lab Control Sample	Total/NA	Water	PrecSep-21	
LCSD 160-275804/3-A	Lab Control Sample Dup	Total/NA	Water	PrecSep-21	

Prep Batch: 275812

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-128868-1	SGWC-7	Total/NA	Water	PrecSep_0	
400-128868-5	EB-3 (AP)	Total/NA	Water	PrecSep_0	
MB 160-275812/1-A	Method Blank	Total/NA	Water	PrecSep_0	
LCS 160-275812/2-A	Lab Control Sample	Total/NA	Water	PrecSep_0	
LCSD 160-275812/3-A	Lab Control Sample Dup	Total/NA	Water	PrecSep_0	

TestAmerica Pensacola

QC Sample Results

Client: Southern Company
Project/Site: CCR Plant Scherer

TestAmerica Job ID: 400-128868-2
SDG: Ash Pond

Method: 9315 - Radium-226 (GFPC)

Lab Sample ID: MB 160-275561/1-A
Matrix: Water
Analysis Batch: 280042

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 275561

Analyte	MB MB		Count	Total	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
	Result	Qualifier	Uncert. (2σ+/-)	Uncert. (2σ+/-)						
Radium-226	-0.1324	U	0.146	0.146	1.00	0.355	pCi/L	10/21/16 13:17	11/19/16 12:15	1
Carrier	MB MB		Limits			Prepared	Analyzed	Dil Fac		
Ba Carrier	%Yield	Qualifier		10/21/16 13:17	11/19/16 12:15				1	

Lab Sample ID: LCS 160-275561/2-A
Matrix: Water
Analysis Batch: 280042

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 275561

Analyte	Spike Added	LCS Result	LCS Qual	Total	RL	MDC	Unit	%Rec	%Rec. Limits
				Uncert. (2σ+/-)					
Radium-226	11.1	12.90		1.55	1.00	0.310	pCi/L	116	68 - 137
Carrier	LCS LCS		Limits			Prepared	Analyzed	Dil Fac	
Ba Carrier	%Yield	Qualifier		10/21/16 13:17	11/19/16 12:15				1

Lab Sample ID: 400-128868-10 MS
Matrix: Water
Analysis Batch: 280040

Client Sample ID: SGWC-23
Prep Type: Total/NA
Prep Batch: 275561

Analyte	Sample Result	Sample Qual	Spike Added	MS Result	MS Qual	Total	RL	MDC	Unit	%Rec	%Rec. Limits
						Uncert. (2σ+/-)					
Radium-226	0.760		11.1	15.19		1.83	1.00	0.297	pCi/L	130	75 - 138
Carrier	MS MS		Limits			Prepared	Analyzed	Dil Fac			
Ba Carrier	%Yield	Qualifier		10/21/16 13:17	11/19/16 12:15				1		

Lab Sample ID: 400-128868-10 MSD
Matrix: Water
Analysis Batch: 280040

Client Sample ID: SGWC-23
Prep Type: Total/NA
Prep Batch: 275561

Analyte	Sample Result	Sample Qual	Spike Added	MSD Result	MSD Qual	Total	RL	MDC	Unit	%Rec	%Rec. Limits	RER	RER Limit
						Uncert. (2σ+/-)							
Radium-226	0.760		11.1	15.05		1.75	1.00	0.275	pCi/L	129	75 - 138	0.04	1
Carrier	MSD MSD		Limits			Prepared	Analyzed	Dil Fac					
Ba Carrier	%Yield	Qualifier		10/21/16 13:17	11/19/16 12:15				1				

Lab Sample ID: MB 160-275804/1-A
Matrix: Water
Analysis Batch: 280042

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 275804

Analyte	MB MB		Count	Total	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
	Result	Qualifier	Uncert. (2σ+/-)	Uncert. (2σ+/-)						
Radium-226	0.009914	U	0.176	0.176	1.00	0.346	pCi/L	10/24/16 12:31	11/19/16 17:11	1

TestAmerica Pensacola

QC Sample Results

Client: Southern Company
Project/Site: CCR Plant Scherer

TestAmerica Job ID: 400-128868-2
SDG: Ash Pond

Method: 9315 - Radium-226 (GFPC) (Continued)

Lab Sample ID: MB 160-275804/1-A
Matrix: Water
Analysis Batch: 280042

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 275804

Carrier	<i>MB</i> %Yield	<i>MB</i> Qualifier	Limits
Ba Carrier	82.3		40 - 110

Prepared	Analyzed	Dil Fac
10/24/16 12:31	11/19/16 17:11	1

Lab Sample ID: LCS 160-275804/2-A
Matrix: Water
Analysis Batch: 280042

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 275804

Analyte	Spike Added	LCS Result	LCS Qual	Total Uncert. (2σ+/-)	RL	MDC	Unit	%Rec	%Rec. Limits
Radium-226	11.1	15.08		1.78	1.00	0.340	pCi/L	136	68 - 137

Carrier	<i>LCS</i> %Yield	<i>LCS</i> Qualifier	Limits
Ba Carrier	75.8		40 - 110

Lab Sample ID: LCSD 160-275804/3-A
Matrix: Water
Analysis Batch: 280042

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 275804

Analyte	Spike Added	LCSD Result	LCSD Qual	Total Uncert. (2σ+/-)	RL	MDC	Unit	%Rec	%Rec. Limits	RER	RER Limit
Radium-226	11.1	14.79		1.75	1.00	0.332	pCi/L	133	68 - 137	0.08	1

Carrier	<i>LCSD</i> %Yield	<i>LCSD</i> Qualifier	Limits
Ba Carrier	74.6		40 - 110

Method: 9320 - Radium-228 (GFPC)

Lab Sample ID: MB 160-275615/1-A
Matrix: Water
Analysis Batch: 280010

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 275615

Analyte	<i>MB</i> Result	<i>MB</i> Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.04764	U	0.240	0.240	1.00	0.421	pCi/L	10/21/16 14:15	11/18/16 14:32	1

Carrier	<i>MB</i> %Yield	<i>MB</i> Qualifier	Limits
Ba Carrier	86.3		40 - 110
Y Carrier	87.1		40 - 110

Lab Sample ID: LCS 160-275615/2-A
Matrix: Water
Analysis Batch: 280010

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 275615

Analyte	Spike Added	LCS Result	LCS Qual	Total Uncert. (2σ+/-)	RL	MDC	Unit	%Rec	%Rec. Limits
Radium-228	14.3	15.25		1.64	1.00	0.417	pCi/L	107	56 - 140

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QC Sample Results

Client: Southern Company
Project/Site: CCR Plant Scherer

TestAmerica Job ID: 400-128868-2
SDG: Ash Pond

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

Lab Sample ID: LCS 160-275615/2-A
Matrix: Water
Analysis Batch: 280010

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 275615

	LCS	LCS	
Carrier	%Yield	Qualifier	Limits
Ba Carrier	90.0		40 - 110
Y Carrier	86.4		40 - 110

Lab Sample ID: 400-128868-10 MS
Matrix: Water
Analysis Batch: 280012

Client Sample ID: SGWC-23
Prep Type: Total/NA
Prep Batch: 275615

Analyte	Sample Result	Sample Qual	Spike Added	MS Result	MS Qual	Total Uncert. (2σ+/-)	RL	MDC	Unit	%Rec	%Rec. Limits	
Radium-228	0.121	U	14.3	17.48		1.94	1.00	0.518	pCi/L	123	45 - 150	

	MS	MS	
Carrier	%Yield	Qualifier	Limits
Ba Carrier	63.2		40 - 110
Y Carrier	85.2		40 - 110

Lab Sample ID: 400-128868-10 MSD
Matrix: Water
Analysis Batch: 280012

Client Sample ID: SGWC-23
Prep Type: Total/NA
Prep Batch: 275615

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	0.121	U	14.3	17.02		1.84	1.00	0.477	pCi/L	119	45 - 150	0.12	1	

	MSD	MSD	
Carrier	%Yield	Qualifier	Limits
Ba Carrier	81.2		40 - 110
Y Carrier	85.6		40 - 110

Lab Sample ID: MB 160-275812/1-A
Matrix: Water
Analysis Batch: 280010

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 275812

Analyte	MB Result	MB Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared		Analyzed		Dil Fac
Radium-228	0.2152	U	0.255	0.256	1.00	0.421	pCi/L	10/24/16 13:37	11/18/16 14:36		1	

	MB	MB		Prepared	Analyzed	Dil Fac
Carrier	%Yield	Qualifier	Limits			
Ba Carrier	82.3		40 - 110	10/24/16 13:37	11/18/16 14:36	1
Y Carrier	88.2		40 - 110	10/24/16 13:37	11/18/16 14:36	1

Lab Sample ID: LCS 160-275812/2-A
Matrix: Water
Analysis Batch: 280010

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 275812

Analyte	Spike Added	LCS Result	LCS Qual	Total Uncert. (2σ+/-)	RL	MDC	Unit	%Rec	%Rec. Limits	
Radium-228	14.3	16.69		1.82	1.00	0.453	pCi/L	117	56 - 140	

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QC Sample Results

Client: Southern Company
 Project/Site: CCR Plant Scherer

TestAmerica Job ID: 400-128868-2
 SDG: Ash Pond

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

Lab Sample ID: LCS 160-275812/2-A
Matrix: Water
Analysis Batch: 280010

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 275812

	LCS	LCS	
Carrier	%Yield	Qualifier	Limits
Ba Carrier	75.8		40 - 110
Y Carrier	86.4		40 - 110

Lab Sample ID: LCSD 160-275812/3-A
Matrix: Water
Analysis Batch: 280010

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 275812

Analyte	Spike Added	LCSD Result	LCSD Qual	Total Uncert. (2σ+/-)	RL	MDC	Unit	%Rec	%Rec.		RER	RER Limit
									Limits	RER		
Radium-228	14.3	18.80		2.02	1.00	0.458	pCi/L	132	56 - 140	0.55	1	

	LCSD	LCSD	
Carrier	%Yield	Qualifier	Limits
Ba Carrier	74.6		40 - 110
Y Carrier	85.6		40 - 110

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TestAmerica Pensacola
 3355 McLemore Drive
 Pensacola, FL 32514
 Phone (850) 474-1001 Fax (850) 478-2671

Chain of Custody Record

TestAmerica
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Client Information
 Client Contact: Ben Hodges
 Phone: 912-258-7457
 Company: Jojo Abraham
 Southern Company
 Address: 241 Ralph McGill Blvd SE B10185
 City: Atlanta
 State: GA, Zip: 30308
 Email: JAbraham@southernco.com
 Project Name: CCR - Scherer
 Site: Ash Pond

Lab P/N: Whitnire, Cheyenne R
E-Mail: cheyenne.whitnire@testamericainc.com
Carrier Tracking No(s):
Analysis Requested:

Due Date Requested:
TAT Requested (days):
PO #: GPC10624814
WO #:
Project #: 40007041
SSON#:

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BFC=leachate, A=air)	Preservation Code:	Field Filtered Sample (Yes or No)	Pb/Tm/MSD (Yes or No)	ID			Total Number of Containers	Special Instructions/Note:
								I	D	D		
SGWC-7	10/18/16	1013	G	Water		N		1	1	1	3	
SGWC-15	10/18/16	1015	G	Water		N		1	1	1	3	
EB-2(AP)	10/18/16	0807	G	Water		N		1	1	1	3	
SGWC-21	10/18/16	1025	G	Water		N		1	1	1	3	
EB-3(AP)	10/18/16	0817	G	Water		N		1	1	1	3	
FD-3(AP)	10/18/16	--	G	Water		N		1	1	1	3	
SGWC-16	10/18/16	1150	G	Water		N		1	1	1	3	
FD-2(AP)	10/18/16	--	G	Water		N		1	1	1	3	
SGWC-20	10/18/16	1255	G	Water		N		1	1	1	3	
SGWC-23	10/18/16	1323	G	Water		N		1	1	2	4	1 Extra Radium
SGWC-9	10/18/16	1515	G	Water		N		1	1	1	3	
SGWC-19	10/18/16	1405	G	Water		N		1	1	1	3	
SGWC-22	10/18/16	1641	G	Water		N		1	1	1	3	
FB-2(AP)	10/18/16	1256	G	Water		N		1	1	1	3	

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
 Return To Client Disposal By Lab Archive For _____ Months
Special Instructions/QC Requirements:

Possible Hazard Identification
 Non-Hazard Flammable Skin Irritant Poison B Unknown Radiological
Deliverable Requested: I, II, III, IV, Other (specify)

Empty Kit Relinquished by: _____
Relinquished by: Ben Hodges
 Date: 10/18/16 1700
 Company: Golden
Relinquished by: _____
 Date: _____
 Company: _____
Relinquished by: _____
 Date: _____
 Company: _____

Custody-Seals Intact: Yes No
Custody Seal No.: 743047, 743080, 743048, 743049, 1898645
Temperature: 1.32, 4.2°C, 4.4°C, 4.6°C, 5.7°C
IR5



Login Sample Receipt Checklist

Client: Southern Company

Job Number: 400-128868-2

SDG Number: Ash Pond

Login Number: 128868

List Number: 1

Creator: Siddoway, Benjamin

List Source: TestAmerica Pensacola

Question	Answer	Comment
Radioactivity wasn't checked or is \leq background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	True	743047, 743048, 743049, 743050, 898645
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, 4.2°C, 4.4°C, 4.6°C, 5.7°C IR-5
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 <math><6\text{mm}</math> (1/4").	N/A	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

Certification Summary

Client: Southern Company
Project/Site: CCR Plant Scherer

TestAmerica Job ID: 400-128868-2
SDG: Ash Pond

Laboratory: TestAmerica Pensacola

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

Authority	Program	EPA Region	Certification ID	Expiration Date
Alabama	State Program	4	40150	06-30-17
Arizona	State Program	9	AZ0710	01-11-17
Arkansas DEQ	State Program	6	88-0689	09-01-17
California	ELAP	9	2510	03-31-18
Florida	NELAP	4	E81010	06-30-17
Georgia	State Program	4	N/A	06-30-17
Illinois	NELAP	5	200041	10-09-17
Iowa	State Program	7	367	08-01-18
Kansas	NELAP	7	E-10253	10-31-17
Kentucky (UST)	State Program	4	53	06-30-17
Kentucky (WW)	State Program	4	98030	12-31-16
Louisiana	NELAP	6	30976	06-30-17
Louisiana (DW)	NELAP Secondary AB	6	LA170005	12-31-17
Maryland	State Program	3	233	09-30-17
Massachusetts	State Program	1	M-FL094	06-30-17
Michigan	State Program	5	9912	05-06-17
New Jersey	NELAP	2	FL006	06-30-17
North Carolina (WW/SW)	State Program	4	314	12-31-16
Oklahoma	State Program	6	9810	08-31-17
Pennsylvania	NELAP	3	68-00467	01-31-17
Rhode Island	State Program	1	LAO00307	12-30-16
South Carolina	State Program	4	96026	06-30-17
Tennessee	State Program	4	TN02907	06-30-17
Texas	NELAP	6	T104704286-16-10	09-30-17
USDA	Federal		P330-16-00172	05-24-19
Virginia	NELAP	3	460166	06-14-17
Washington	State Program	10	C915	05-15-17
West Virginia DEP	State Program	3	136	06-30-17

Laboratory: TestAmerica St. Louis

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

Authority	Program	EPA Region	Certification ID	Expiration Date
Alaska	State Program	10	MO00054	06-30-17
California	State Program	9	2886	03-31-18
Connecticut	State Program	1	PH-0241	03-31-17
Florida	NELAP	4	E87689	06-30-17
Illinois	NELAP	5	003757	11-30-16 *
Iowa	State Program	7	373	12-01-16 *
Kansas	NELAP	7	E-10236	10-31-17
Kentucky (DW)	State Program	4	90125	12-31-16
L-A-B	DoD ELAP		L2305	04-06-19
Louisiana	NELAP	6	04080	06-30-17
Louisiana (DW)	NELAP	6	LA160008	12-31-16 *
Maryland	State Program	3	310	09-30-17
Missouri	State Program	7	780	06-30-17
Nevada	State Program	9	MO000542016-1	07-31-17
New Jersey	NELAP	2	MO002	06-30-17
New York	NELAP	2	11616	03-31-17
North Dakota	State Program	8	R207	06-30-17

* Certification renewal pending - certification considered valid.

Certification Summary

Client: Southern Company
Project/Site: CCR Plant Scherer

TestAmerica Job ID: 400-128868-2
SDG: Ash Pond

Laboratory: TestAmerica St. Louis (Continued)

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

Authority	Program	EPA Region	Certification ID	Expiration Date
NRC	NRC		24-24817-01	12-31-22
Oklahoma	State Program	6	9997	08-31-17
Pennsylvania	NELAP	3	68-00540	02-28-17 *
South Carolina	State Program	4	85002001	06-30-17
Texas	NELAP	6	T104704193-16-10	07-31-17
US Fish & Wildlife	Federal		LE058448-0	10-31-17
USDA	Federal		P330-14-0016	01-09-17
Utah	NELAP	8	MO000542016-8	07-31-17
Virginia	NELAP	3	460230	06-14-17
Washington	State Program	10	C592	08-30-17
West Virginia DEP	State Program	3	381	08-31-17

* Certification renewal pending - certification considered valid.

TestAmerica Pensacola

TestAmerica

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ANALYTICAL REPORT

TestAmerica Laboratories, Inc.

TestAmerica Pensacola

3355 McLemore Drive

Pensacola, FL 32514

Tel: (850)474-1001

TestAmerica Job ID: 400-129004-1

TestAmerica Sample Delivery Group: Ash Pond

Client Project/Site: CCR Plant Scherer

For:

Southern Company

241 Ralph McGill Blvd SE

B10185

Atlanta, Georgia 30308

Attn: Joju Abraham



Authorized for release by:

11/14/2016 9:14:26 AM

Cheyenne Whitmire, Project Manager II

(850)471-6222

cheyenne.whitmire@testamericainc.com

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The test results in this report meet all 2003 NELAC and 2009 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.

1

2

3

4

5

6

7

8

9

10

11

12

13

14



Table of Contents

Cover Page	1
Table of Contents	2
Case Narrative	3
Detection Summary	4
Method Summary	6
Sample Summary	7
Client Sample Results	8
Definitions	12
Chronicle	13
QC Association	15
QC Sample Results	18
Chain of Custody	26
Receipt Checklists	27
Certification Summary	28

Case Narrative

Client: Southern Company
Project/Site: CCR Plant Scherer

TestAmerica Job ID: 400-129004-1
SDG: Ash Pond

Job ID: 400-129004-1

Laboratory: TestAmerica Pensacola

Narrative

Job Narrative 400-129004-1

HPLC/IC

Method(s) 300.0: The following samples were diluted to bring the concentration of target analytes within the calibration range: SGWC-17 (400-129004-1), SGWC-17 (FILTERED) (400-129004-2) and SGWC-18 (400-129004-3). Elevated reporting limits (RLs) are provided.

Metals

Method(s) 6020: The continuing calibration verification (CCV) associated with batch 329065 recovered above the upper control limit for Cobalt. The samples associated with this CCV were non-detects for the affected analytes; therefore, the data have been reported. The following sample is impacted: FB-3(AP) (400-129004-4) and (MB 400-328137/1-A ^5).

Method(s) 6020: Due to matrix effects, internal standards (ISTD) recovered high outside laboratory upper limit (>120%). Additional dilution to return ISTD to control would elevate reporting limits beyond acceptable target detection limits. The affected analyte Antimony is non-detect. SGWC-18 (400-129004-3)

Method(s) 6020: The matrix spike duplicate (MSD) recoveries for preparation batch 328057 and analytical batch 329309 were outside control limits. Sample matrix interference is suspected because the associated laboratory control sample (LCS) recovery was within acceptance limits.

Method(s) 6020: The following sample was diluted to bring the concentration of target analytes within the calibration range: SGWC-18 (400-129004-3). Elevated reporting limits (RLs) are provided.

Detection Summary

Client: Southern Company
Project/Site: CCR Plant Scherer

TestAmerica Job ID: 400-129004-1
SDG: Ash Pond

Client Sample ID: SGWC-17

Lab Sample ID: 400-129004-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chloride	8.3		1.0	0.89	mg/L	1		300.0	Total/NA
Sulfate	140		5.0	3.5	mg/L	5		300.0	Total/NA
Arsenic	0.0011	J	0.0013	0.00046	mg/L	5		6020	Total Recoverable
Barium	0.023		0.0025	0.00049	mg/L	5		6020	Total Recoverable
Boron	0.37		0.050	0.021	mg/L	5		6020	Total Recoverable
Calcium	39		0.25	0.13	mg/L	5		6020	Total Recoverable
Chromium	0.0048		0.0025	0.0011	mg/L	5		6020	Total Recoverable
Cobalt	0.00094	J	0.0025	0.00040	mg/L	5		6020	Total Recoverable
Total Dissolved Solids	320		5.0	3.4	mg/L	1		SM 2540C	Total/NA

Client Sample ID: SGWC-17 (FILTERED)

Lab Sample ID: 400-129004-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chloride, Dissolved	8.3		1.0	0.89	mg/L	1		300.0	Dissolved
Sulfate, Dissolved	140		5.0	3.5	mg/L	5		300.0	Dissolved
Arsenic, Dissolved	0.00099	J	0.0013	0.00046	mg/L	5		6020	Dissolved
Boron, Dissolved	0.37		0.050	0.021	mg/L	5		6020	Dissolved
Barium, Dissolved	0.019		0.0025	0.00049	mg/L	5		6020	Dissolved
Calcium, Dissolved	38		0.25	0.13	mg/L	5		6020	Dissolved
Chromium, Dissolved	0.0019	J	0.0025	0.0011	mg/L	5		6020	Dissolved
Cobalt, Dissolved	0.00075	J	0.0025	0.00040	mg/L	5		6020	Dissolved
Total Dissolved Solids	340		5.0	3.4	mg/L	1		SM 2540C	Total/NA

Client Sample ID: SGWC-18

Lab Sample ID: 400-129004-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chloride	5.1		1.0	0.89	mg/L	1		300.0	Total/NA
Sulfate	520		20	14	mg/L	20		300.0	Total/NA
Arsenic	0.0019		0.0013	0.00046	mg/L	5		6020	Total Recoverable
Barium	0.016		0.0025	0.00049	mg/L	5		6020	Total Recoverable
Calcium	51		0.25	0.13	mg/L	5		6020	Total Recoverable
Chromium	0.0064		0.0025	0.0011	mg/L	5		6020	Total Recoverable
Cobalt	0.14		0.0025	0.00040	mg/L	5		6020	Total Recoverable
Lithium	0.0042	J	0.0050	0.0032	mg/L	5		6020	Total Recoverable
Selenium	0.0057		0.0013	0.00024	mg/L	5		6020	Total Recoverable
Thallium	0.00012	J	0.00050	0.000085	mg/L	5		6020	Total Recoverable
Boron - DL	4.5		1.0	0.42	mg/L	100		6020	Total Recoverable
Total Dissolved Solids	700		5.0	3.4	mg/L	1		SM 2540C	Total/NA

This Detection Summary does not include radiochemical test results.

TestAmerica Pensacola

Detection Summary

Client: Southern Company
Project/Site: CCR Plant Scherer

TestAmerica Job ID: 400-129004-1
SDG: Ash Pond

Client Sample ID: FB-3(AP)

Lab Sample ID: 400-129004-4

No Detections.

- 1
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This Detection Summary does not include radiochemical test results.

TestAmerica Pensacola

Method Summary

Client: Southern Company
Project/Site: CCR Plant Scherer

TestAmerica Job ID: 400-129004-1
SDG: Ash Pond

Method	Method Description	Protocol	Laboratory
300.0	Anions, Ion Chromatography	MCAWW	TAL PEN
6020	Metals (ICP/MS)	SW846	TAL PEN
7470A	Mercury (CVAA)	SW846	TAL PEN
SM 2540C	Solids, Total Dissolved (TDS)	SM	TAL PEN

Protocol References:

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:

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

Sample Summary

Client: Southern Company
Project/Site: CCR Plant Scherer

TestAmerica Job ID: 400-129004-1
SDG: Ash Pond

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
400-129004-1	SGWC-17	Water	10/19/16 10:58	10/20/16 08:28
400-129004-2	SGWC-17 (FILTERED)	Water	10/19/16 10:58	10/20/16 08:28
400-129004-3	SGWC-18	Water	10/19/16 10:05	10/20/16 08:28
400-129004-4	FB-3(AP)	Water	10/19/16 10:10	10/20/16 08:28

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- 13
- 14

Client Sample Results

Client: Southern Company
Project/Site: CCR Plant Scherer

TestAmerica Job ID: 400-129004-1
SDG: Ash Pond

Client Sample ID: SGWC-17

Lab Sample ID: 400-129004-1

Date Collected: 10/19/16 10:58

Matrix: Water

Date Received: 10/20/16 08:28

Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	8.3		1.0	0.89	mg/L			11/03/16 04:37	1
Fluoride	<0.082		0.20	0.082	mg/L			11/03/16 04:37	1
Sulfate	140		5.0	3.5	mg/L			11/03/16 23:15	5

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0010		0.0025	0.0010	mg/L		10/26/16 08:00	11/01/16 18:48	5
Arsenic	0.0011	J	0.0013	0.00046	mg/L		10/26/16 08:00	11/01/16 18:48	5
Barium	0.023		0.0025	0.00049	mg/L		10/26/16 08:00	11/01/16 18:48	5
Beryllium	<0.00034		0.0025	0.00034	mg/L		10/26/16 08:00	11/01/16 18:48	5
Boron	0.37		0.050	0.021	mg/L		10/26/16 08:00	11/01/16 18:48	5
Cadmium	<0.00034		0.0025	0.00034	mg/L		10/26/16 08:00	11/01/16 18:48	5
Calcium	39		0.25	0.13	mg/L		10/26/16 08:00	11/01/16 18:48	5
Chromium	0.0048		0.0025	0.0011	mg/L		10/26/16 08:00	11/01/16 18:48	5
Cobalt	0.00094	J	0.0025	0.00040	mg/L		10/26/16 08:00	11/01/16 18:48	5
Lead	<0.00035		0.0013	0.00035	mg/L		10/26/16 08:00	11/01/16 18:48	5
Lithium	<0.0032		0.0050	0.0032	mg/L		10/26/16 08:00	11/01/16 18:48	5
Molybdenum	<0.00085		0.015	0.00085	mg/L		10/26/16 08:00	11/01/16 18:48	5
Selenium	<0.00024		0.0013	0.00024	mg/L		10/26/16 08:00	11/01/16 18:48	5
Thallium	<0.000085		0.00050	0.000085	mg/L		10/26/16 08:00	11/01/16 18:48	5

Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.000070		0.00020	0.000070	mg/L		10/21/16 16:23	10/27/16 13:27	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	320		5.0	3.4	mg/L			10/25/16 17:30	1

Client Sample Results

Client: Southern Company
Project/Site: CCR Plant Scherer

TestAmerica Job ID: 400-129004-1
SDG: Ash Pond

Client Sample ID: SGWC-17 (FILTERED)

Lab Sample ID: 400-129004-2

Date Collected: 10/19/16 10:58

Matrix: Water

Date Received: 10/20/16 08:28

Method: 300.0 - Anions, Ion Chromatography - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride, Dissolved	8.3		1.0	0.89	mg/L			11/03/16 04:59	1
Fluoride, Dissolved	<0.082		0.20	0.082	mg/L			11/03/16 04:59	1
Sulfate, Dissolved	140		5.0	3.5	mg/L			11/03/16 23:38	5

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic, Dissolved	0.00099	J	0.0013	0.00046	mg/L		10/26/16 08:00	11/01/16 18:52	5
Boron, Dissolved	0.37		0.050	0.021	mg/L		10/26/16 08:00	11/01/16 18:52	5
Barium, Dissolved	0.019		0.0025	0.00049	mg/L		10/26/16 08:00	11/01/16 18:52	5
Beryllium, Dissolved	<0.00034		0.0025	0.00034	mg/L		10/26/16 08:00	11/01/16 18:52	5
Calcium, Dissolved	38		0.25	0.13	mg/L		10/26/16 08:00	11/01/16 18:52	5
Cadmium, Dissolved	<0.00034		0.0025	0.00034	mg/L		10/26/16 08:00	11/01/16 18:52	5
Chromium, Dissolved	0.0019	J	0.0025	0.0011	mg/L		10/26/16 08:00	11/01/16 18:52	5
Cobalt, Dissolved	0.00075	J	0.0025	0.00040	mg/L		10/26/16 08:00	11/01/16 18:52	5
Molybdenum, Dissolved	<0.00085		0.015	0.00085	mg/L		10/26/16 08:00	11/01/16 18:52	5
Lead, Dissolved	<0.00035		0.0013	0.00035	mg/L		10/26/16 08:00	11/01/16 18:52	5
Antimony, Dissolved	<0.0010		0.0025	0.0010	mg/L		10/26/16 08:00	11/01/16 18:52	5
Thallium, Dissolved	<0.000085		0.00050	0.000085	mg/L		10/26/16 08:00	11/01/16 18:52	5
Selenium, Dissolved	<0.00024		0.0013	0.00024	mg/L		10/26/16 08:00	11/01/16 18:52	5
Lithium, Dissolved	<0.0032		0.0050	0.0032	mg/L		10/26/16 08:00	11/01/16 18:52	5

Method: 7470A - Mercury (CVAA) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury, Dissolved	<0.000070		0.00020	0.000070	mg/L		10/21/16 16:23	10/27/16 13:28	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	340		5.0	3.4	mg/L			10/25/16 17:30	1

Client Sample Results

Client: Southern Company
Project/Site: CCR Plant Scherer

TestAmerica Job ID: 400-129004-1
SDG: Ash Pond

Client Sample ID: SGWC-18

Lab Sample ID: 400-129004-3

Date Collected: 10/19/16 10:05

Matrix: Water

Date Received: 10/20/16 08:28

Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	5.1		1.0	0.89	mg/L			11/03/16 05:22	1
Fluoride	<0.082		0.20	0.082	mg/L			11/03/16 05:22	1
Sulfate	520		20	14	mg/L			11/04/16 00:00	20

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0010		0.0025	0.0010	mg/L		10/26/16 08:00	11/01/16 18:57	5
Arsenic	0.0019		0.0013	0.00046	mg/L		10/26/16 08:00	11/01/16 18:57	5
Barium	0.016		0.0025	0.00049	mg/L		10/26/16 08:00	11/01/16 18:57	5
Beryllium	<0.00034		0.0025	0.00034	mg/L		10/26/16 08:00	11/01/16 18:57	5
Cadmium	<0.00034		0.0025	0.00034	mg/L		10/26/16 08:00	11/01/16 18:57	5
Calcium	51		0.25	0.13	mg/L		10/26/16 08:00	11/01/16 18:57	5
Chromium	0.0064		0.0025	0.0011	mg/L		10/26/16 08:00	11/01/16 18:57	5
Cobalt	0.14		0.0025	0.00040	mg/L		10/26/16 08:00	11/01/16 18:57	5
Lead	<0.00035		0.0013	0.00035	mg/L		10/26/16 08:00	11/01/16 18:57	5
Lithium	0.0042	J	0.0050	0.0032	mg/L		10/26/16 08:00	11/01/16 18:57	5
Molybdenum	<0.00085		0.015	0.00085	mg/L		10/26/16 08:00	11/01/16 18:57	5
Selenium	0.0057		0.0013	0.00024	mg/L		10/26/16 08:00	11/01/16 18:57	5
Thallium	0.00012	J	0.00050	0.000085	mg/L		10/26/16 08:00	11/01/16 18:57	5

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Boron	4.5		1.0	0.42	mg/L		10/26/16 08:00	11/02/16 12:47	100

Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.000070		0.00020	0.000070	mg/L		10/21/16 16:23	10/27/16 13:30	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	700		5.0	3.4	mg/L			10/25/16 17:30	1

Client Sample Results

Client: Southern Company
Project/Site: CCR Plant Scherer

TestAmerica Job ID: 400-129004-1
SDG: Ash Pond

Client Sample ID: FB-3(AP)
Date Collected: 10/19/16 10:10
Date Received: 10/20/16 08:28

Lab Sample ID: 400-129004-4
Matrix: Water

Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<0.89		1.0	0.89	mg/L			11/03/16 06:08	1
Fluoride	<0.082		0.20	0.082	mg/L			11/03/16 06:08	1
Sulfate	<0.70		1.0	0.70	mg/L			11/03/16 06:08	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0010		0.0025	0.0010	mg/L		10/26/16 08:00	10/31/16 19:53	5
Arsenic	<0.00046		0.0013	0.00046	mg/L		10/26/16 08:00	10/31/16 19:53	5
Barium	<0.00049		0.0025	0.00049	mg/L		10/26/16 08:00	10/31/16 19:53	5
Beryllium	<0.00034		0.0025	0.00034	mg/L		10/26/16 08:00	10/31/16 19:53	5
Boron	<0.021		0.050	0.021	mg/L		10/26/16 08:00	10/31/16 19:53	5
Cadmium	<0.00034		0.0025	0.00034	mg/L		10/26/16 08:00	10/31/16 19:53	5
Calcium	<0.13		0.25	0.13	mg/L		10/26/16 08:00	10/31/16 19:53	5
Chromium	<0.0011		0.0025	0.0011	mg/L		10/26/16 08:00	10/31/16 19:53	5
Cobalt	<0.00040	^	0.0025	0.00040	mg/L		10/26/16 08:00	10/31/16 19:53	5
Lead	<0.00035		0.0013	0.00035	mg/L		10/26/16 08:00	10/31/16 19:53	5
Lithium	<0.0032		0.0050	0.0032	mg/L		10/26/16 08:00	10/31/16 19:53	5
Molybdenum	<0.00085		0.015	0.00085	mg/L		10/26/16 08:00	10/31/16 19:53	5
Selenium	<0.00024		0.0013	0.00024	mg/L		10/26/16 08:00	10/31/16 19:53	5
Thallium	<0.000085		0.00050	0.000085	mg/L		10/26/16 08:00	10/31/16 19:53	5

Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.000070		0.00020	0.000070	mg/L		10/21/16 16:23	10/27/16 13:31	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	<3.4		5.0	3.4	mg/L			10/25/16 17:30	1

Definitions/Glossary

Client: Southern Company
Project/Site: CCR Plant Scherer

TestAmerica Job ID: 400-129004-1
SDG: Ash Pond

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 is outside acceptance limits.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
^	ICV,CCV,ICB,CCB, ISA, ISB, CRI, CRA, DLCK or MRL standard: Instrument related QC is outside acceptance limits.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
α	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CNF	Contains no Free Liquid
DER	Duplicate error ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision level concentration
MDA	Minimum detectable activity
EDL	Estimated Detection Limit
MDC	Minimum detectable concentration
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
NC	Not Calculated
ND	Not detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RER	Relative error ratio
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)

Lab Chronicle

Client: Southern Company
Project/Site: CCR Plant Scherer

TestAmerica Job ID: 400-129004-1
SDG: Ash Pond

Client Sample ID: SGWC-17

Date Collected: 10/19/16 10:58

Date Received: 10/20/16 08:28

Lab Sample ID: 400-129004-1

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	300.0		1	329484	11/03/16 04:37	TAJ	TAL PEN
Total/NA	Analysis	300.0		5	329695	11/03/16 23:15	TAJ	TAL PEN
Total Recoverable	Prep	3005A			328057	10/26/16 08:00	RJB	TAL PEN
Total Recoverable	Analysis	6020		5	329309	11/01/16 18:48	AJR	TAL PEN
Total/NA	Prep	7470A			327704	10/21/16 16:23	JAP	TAL PEN
Total/NA	Analysis	7470A		1	328567	10/27/16 13:27	JAP	TAL PEN
Total/NA	Analysis	SM 2540C		1	328254	10/25/16 17:30	TET	TAL PEN

Client Sample ID: SGWC-17 (FILTERED)

Date Collected: 10/19/16 10:58

Date Received: 10/20/16 08:28

Lab Sample ID: 400-129004-2

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Dissolved	Analysis	300.0		1	330088	11/03/16 04:59	TAJ	TAL PEN
Dissolved	Analysis	300.0		5	330099	11/03/16 23:38	LWL	TAL PEN
Dissolved	Prep	3005A			328057	10/26/16 08:00	RJB	TAL PEN
Dissolved	Analysis	6020		5	329309	11/01/16 18:52	AJR	TAL PEN
Dissolved	Prep	7470A			327704	10/21/16 16:23	JAP	TAL PEN
Dissolved	Analysis	7470A		1	328567	10/27/16 13:28	JAP	TAL PEN
Total/NA	Analysis	SM 2540C		1	328254	10/25/16 17:30	TET	TAL PEN

Client Sample ID: SGWC-18

Date Collected: 10/19/16 10:05

Date Received: 10/20/16 08:28

Lab Sample ID: 400-129004-3

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	300.0		1	329484	11/03/16 05:22	TAJ	TAL PEN
Total/NA	Analysis	300.0		20	329695	11/04/16 00:00	TAJ	TAL PEN
Total Recoverable	Prep	3005A			328057	10/26/16 08:00	RJB	TAL PEN
Total Recoverable	Analysis	6020		5	329309	11/01/16 18:57	AJR	TAL PEN
Total Recoverable	Prep	3005A	DL		328057	10/26/16 08:00	RJB	TAL PEN
Total Recoverable	Analysis	6020	DL	100	329406	11/02/16 12:47	AJR	TAL PEN
Total/NA	Prep	7470A			327704	10/21/16 16:23	JAP	TAL PEN
Total/NA	Analysis	7470A		1	328567	10/27/16 13:30	JAP	TAL PEN
Total/NA	Analysis	SM 2540C		1	328254	10/25/16 17:30	TET	TAL PEN

Client Sample ID: FB-3(AP)

Date Collected: 10/19/16 10:10

Date Received: 10/20/16 08:28

Lab Sample ID: 400-129004-4

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	300.0		1	329484	11/03/16 06:08	TAJ	TAL PEN

TestAmerica Pensacola

Lab Chronicle

Client: Southern Company
Project/Site: CCR Plant Scherer

TestAmerica Job ID: 400-129004-1
SDG: Ash Pond

Client Sample ID: FB-3(AP)

Date Collected: 10/19/16 10:10

Date Received: 10/20/16 08:28

Lab Sample ID: 400-129004-4

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total Recoverable	Prep	3005A			328137	10/26/16 08:00	RJB	TAL PEN
Total Recoverable	Analysis	6020		5	329065	10/31/16 19:53	AJR	TAL PEN
Total/NA	Prep	7470A			327704	10/21/16 16:23	JAP	TAL PEN
Total/NA	Analysis	7470A		1	328567	10/27/16 13:31	JAP	TAL PEN
Total/NA	Analysis	SM 2540C		1	328254	10/25/16 17:30	TET	TAL PEN

Laboratory References:

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

QC Association Summary

Client: Southern Company
Project/Site: CCR Plant Scherer

TestAmerica Job ID: 400-129004-1
SDG: Ash Pond

HPLC/IC

Analysis Batch: 329484

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-129004-1	SGWC-17	Total/NA	Water	300.0	
400-129004-3	SGWC-18	Total/NA	Water	300.0	
400-129004-4	FB-3(AP)	Total/NA	Water	300.0	

Analysis Batch: 329695

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-129004-1	SGWC-17	Total/NA	Water	300.0	
400-129004-3	SGWC-18	Total/NA	Water	300.0	
MB 400-329695/20	Method Blank	Total/NA	Water	300.0	
LCS 400-329695/21	Lab Control Sample	Total/NA	Water	300.0	
LCSD 400-329695/22	Lab Control Sample Dup	Total/NA	Water	300.0	
400-128868-A-9 MS	Matrix Spike	Total/NA	Water	300.0	
400-128868-A-9 MSD	Matrix Spike Duplicate	Total/NA	Water	300.0	

Analysis Batch: 330088

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-129004-2	SGWC-17 (FILTERED)	Dissolved	Water	300.0	
MB 400-330088/2	Method Blank	Total/NA	Water	300.0	
LCS 400-330088/3	Lab Control Sample	Total/NA	Water	300.0	
LCSD 400-330088/4	Lab Control Sample Dup	Total/NA	Water	300.0	

Analysis Batch: 330099

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-129004-2	SGWC-17 (FILTERED)	Dissolved	Water	300.0	
MB 400-330099/2	Method Blank	Total/NA	Water	300.0	
LCS 400-330099/3	Lab Control Sample	Total/NA	Water	300.0	
LCSD 400-330099/4	Lab Control Sample Dup	Total/NA	Water	300.0	

Metals

Prep Batch: 327704

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-129004-1	SGWC-17	Total/NA	Water	7470A	
400-129004-2	SGWC-17 (FILTERED)	Dissolved	Water	7470A	
400-129004-3	SGWC-18	Total/NA	Water	7470A	
400-129004-4	FB-3(AP)	Total/NA	Water	7470A	
MB 400-327704/14-A	Method Blank	Total/NA	Water	7470A	
LCS 400-327704/15-A	Lab Control Sample	Total/NA	Water	7470A	
400-128929-A-7-B MS	Matrix Spike	Total/NA	Water	7470A	
400-128929-A-7-C MSD	Matrix Spike Duplicate	Total/NA	Water	7470A	

Prep Batch: 328057

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-129004-1	SGWC-17	Total Recoverable	Water	3005A	
400-129004-2	SGWC-17 (FILTERED)	Dissolved	Water	3005A	
400-129004-3 - DL	SGWC-18	Total Recoverable	Water	3005A	
400-129004-3	SGWC-18	Total Recoverable	Water	3005A	
MB 400-328057/1-A ^5	Method Blank	Total Recoverable	Water	3005A	
LCS 400-328057/2-A	Lab Control Sample	Total Recoverable	Water	3005A	
400-128929-A-8-C MS ^5	Matrix Spike	Total Recoverable	Water	3005A	

TestAmerica Pensacola

QC Association Summary

Client: Southern Company
Project/Site: CCR Plant Scherer

TestAmerica Job ID: 400-129004-1
SDG: Ash Pond

Metals (Continued)

Prep Batch: 328057 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-128929-A-8-D MSD ^5	Matrix Spike Duplicate	Total Recoverable	Water	3005A	

Prep Batch: 328137

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-129004-4	FB-3(AP)	Total Recoverable	Water	3005A	
MB 400-328137/1-A ^5	Method Blank	Total Recoverable	Water	3005A	
LCS 400-328137/2-A	Lab Control Sample	Total Recoverable	Water	3005A	
400-129060-E-1-B MS ^5	Matrix Spike	Dissolved	Water	3005A	
400-129060-E-1-C MSD ^5	Matrix Spike Duplicate	Dissolved	Water	3005A	

Analysis Batch: 328567

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-129004-1	SGWC-17	Total/NA	Water	7470A	327704
400-129004-2	SGWC-17 (FILTERED)	Dissolved	Water	7470A	327704
400-129004-3	SGWC-18	Total/NA	Water	7470A	327704
400-129004-4	FB-3(AP)	Total/NA	Water	7470A	327704
MB 400-327704/14-A	Method Blank	Total/NA	Water	7470A	327704
LCS 400-327704/15-A	Lab Control Sample	Total/NA	Water	7470A	327704
400-128929-A-7-B MS	Matrix Spike	Total/NA	Water	7470A	327704
400-128929-A-7-C MSD	Matrix Spike Duplicate	Total/NA	Water	7470A	327704

Analysis Batch: 329065

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-129004-4	FB-3(AP)	Total Recoverable	Water	6020	328137
MB 400-328137/1-A ^5	Method Blank	Total Recoverable	Water	6020	328137
LCS 400-328137/2-A	Lab Control Sample	Total Recoverable	Water	6020	328137
400-129060-E-1-B MS ^5	Matrix Spike	Dissolved	Water	6020	328137
400-129060-E-1-C MSD ^5	Matrix Spike Duplicate	Dissolved	Water	6020	328137

Analysis Batch: 329309

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-129004-1	SGWC-17	Total Recoverable	Water	6020	328057
400-129004-2	SGWC-17 (FILTERED)	Dissolved	Water	6020	328057
400-129004-3	SGWC-18	Total Recoverable	Water	6020	328057
MB 400-328057/1-A ^5	Method Blank	Total Recoverable	Water	6020	328057
LCS 400-328057/2-A	Lab Control Sample	Total Recoverable	Water	6020	328057
400-128929-A-8-C MS ^5	Matrix Spike	Total Recoverable	Water	6020	328057
400-128929-A-8-D MSD ^5	Matrix Spike Duplicate	Total Recoverable	Water	6020	328057

Analysis Batch: 329406

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-129004-3 - DL	SGWC-18	Total Recoverable	Water	6020	328057

General Chemistry

Analysis Batch: 328254

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-129004-1	SGWC-17	Total/NA	Water	SM 2540C	
400-129004-2	SGWC-17 (FILTERED)	Total/NA	Water	SM 2540C	
400-129004-3	SGWC-18	Total/NA	Water	SM 2540C	

TestAmerica Pensacola

QC Association Summary

Client: Southern Company
Project/Site: CCR Plant Scherer

TestAmerica Job ID: 400-129004-1
SDG: Ash Pond

General Chemistry (Continued)

Analysis Batch: 328254 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-129004-4	FB-3(AP)	Total/NA	Water	SM 2540C	
MB 400-328254/1	Method Blank	Total/NA	Water	SM 2540C	
LCS 400-328254/2	Lab Control Sample	Total/NA	Water	SM 2540C	
400-128955-A-1 DU	Duplicate	Total/NA	Water	SM 2540C	

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

QC Sample Results

Client: Southern Company
Project/Site: CCR Plant Scherer

TestAmerica Job ID: 400-129004-1
SDG: Ash Pond

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 400-329695/20
Matrix: Water
Analysis Batch: 329695

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<0.89		1.0	0.89	mg/L			11/03/16 18:18	1
Fluoride	<0.082		0.20	0.082	mg/L			11/03/16 18:18	1
Sulfate	<0.70		1.0	0.70	mg/L			11/03/16 18:18	1

Lab Sample ID: LCS 400-329695/21
Matrix: Water
Analysis Batch: 329695

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloride	10.0	9.15		mg/L		91	90 - 110
Fluoride	10.0	9.99		mg/L		100	90 - 110
Sulfate	10.0	9.64		mg/L		96	90 - 110

Lab Sample ID: LCSD 400-329695/22
Matrix: Water
Analysis Batch: 329695

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
Chloride	10.0	9.29		mg/L		93	90 - 110	2	15
Fluoride	10.0	10.0		mg/L		100	90 - 110	0	15
Sulfate	10.0	9.67		mg/L		97	90 - 110	0	15

Lab Sample ID: 400-128868-A-9 MS
Matrix: Water
Analysis Batch: 329695

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	11		100	109		mg/L		98	80 - 120
Fluoride	<0.82		100	106		mg/L		106	80 - 120
Sulfate	240		100	339		mg/L		103	80 - 120

Lab Sample ID: 400-128868-A-9 MSD
Matrix: Water
Analysis Batch: 329695

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	11		100	108		mg/L		97	80 - 120	0	20
Fluoride	<0.82		100	107		mg/L		107	80 - 120	1	20
Sulfate	240		100	340		mg/L		104	80 - 120	0	20

Lab Sample ID: MB 400-330088/2
Matrix: Water
Analysis Batch: 330088

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride, Dissolved	<0.89		1.0	0.89	mg/L			11/02/16 22:09	1
Fluoride, Dissolved	<0.082		0.20	0.082	mg/L			11/02/16 22:09	1

TestAmerica Pensacola

QC Sample Results

Client: Southern Company
Project/Site: CCR Plant Scherer

TestAmerica Job ID: 400-129004-1
SDG: Ash Pond

Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: LCS 400-330088/3
Matrix: Water
Analysis Batch: 330088

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloride, Dissolved	10.0	9.26		mg/L		93	90 - 110
Fluoride, Dissolved	10.0	9.53		mg/L		95	90 - 110

Lab Sample ID: LCSD 400-330088/4
Matrix: Water
Analysis Batch: 330088

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
Chloride, Dissolved	10.0	9.18		mg/L		92	90 - 110	1	15
Fluoride, Dissolved	10.0	9.90		mg/L		99	90 - 110	4	15

Lab Sample ID: MB 400-330099/2
Matrix: Water
Analysis Batch: 330099

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfate, Dissolved	<0.70		1.0	0.70	mg/L			11/03/16 18:18	1

Lab Sample ID: LCS 400-330099/3
Matrix: Water
Analysis Batch: 330099

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Sulfate, Dissolved	10.0	9.64		mg/L		96	90 - 110

Lab Sample ID: LCSD 400-330099/4
Matrix: Water
Analysis Batch: 330099

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
Sulfate, Dissolved	10.0	9.67		mg/L		97	90 - 110	0	15

Method: 6020 - Metals (ICP/MS)

Lab Sample ID: MB 400-328057/1-A ^5
Matrix: Water
Analysis Batch: 329309

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 328057

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.00046		0.0013	0.00046	mg/L		10/26/16 08:00	11/01/16 16:19	5
Arsenic, Dissolved	<0.00046		0.0013	0.00046	mg/L		10/26/16 08:00	11/01/16 16:19	5
Barium	<0.00049		0.0025	0.00049	mg/L		10/26/16 08:00	11/01/16 16:19	5
Barium, Dissolved	<0.00049		0.0025	0.00049	mg/L		10/26/16 08:00	11/01/16 16:19	5
Beryllium	<0.00034		0.0025	0.00034	mg/L		10/26/16 08:00	11/01/16 16:19	5
Beryllium, Dissolved	<0.00034		0.0025	0.00034	mg/L		10/26/16 08:00	11/01/16 16:19	5
Boron	<0.021		0.050	0.021	mg/L		10/26/16 08:00	11/01/16 16:19	5
Boron, Dissolved	<0.021		0.050	0.021	mg/L		10/26/16 08:00	11/01/16 16:19	5
Cadmium	<0.00034		0.0025	0.00034	mg/L		10/26/16 08:00	11/01/16 16:19	5
Cadmium, Dissolved	<0.00034		0.0025	0.00034	mg/L		10/26/16 08:00	11/01/16 16:19	5

TestAmerica Pensacola

QC Sample Results

Client: Southern Company
Project/Site: CCR Plant Scherer

TestAmerica Job ID: 400-129004-1
SDG: Ash Pond

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

Lab Sample ID: MB 400-328057/1-A ^5
Matrix: Water
Analysis Batch: 329309

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 328057

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	<0.13		0.25	0.13	mg/L		10/26/16 08:00	11/01/16 16:19	5
Calcium, Dissolved	<0.13		0.25	0.13	mg/L		10/26/16 08:00	11/01/16 16:19	5
Chromium	<0.0011		0.0025	0.0011	mg/L		10/26/16 08:00	11/01/16 16:19	5
Chromium, Dissolved	<0.0011		0.0025	0.0011	mg/L		10/26/16 08:00	11/01/16 16:19	5
Cobalt	<0.00040		0.0025	0.00040	mg/L		10/26/16 08:00	11/01/16 16:19	5
Cobalt, Dissolved	<0.00040		0.0025	0.00040	mg/L		10/26/16 08:00	11/01/16 16:19	5
Lead	<0.00035		0.0013	0.00035	mg/L		10/26/16 08:00	11/01/16 16:19	5
Lead, Dissolved	<0.00035		0.0013	0.00035	mg/L		10/26/16 08:00	11/01/16 16:19	5
Antimony	<0.0010		0.0025	0.0010	mg/L		10/26/16 08:00	11/01/16 16:19	5
Antimony, Dissolved	<0.0010		0.0025	0.0010	mg/L		10/26/16 08:00	11/01/16 16:19	5
Molybdenum	<0.00085		0.015	0.00085	mg/L		10/26/16 08:00	11/01/16 16:19	5
Molybdenum, Dissolved	<0.00085		0.015	0.00085	mg/L		10/26/16 08:00	11/01/16 16:19	5
Selenium	<0.00024		0.0013	0.00024	mg/L		10/26/16 08:00	11/01/16 16:19	5
Selenium, Dissolved	<0.00024		0.0013	0.00024	mg/L		10/26/16 08:00	11/01/16 16:19	5
Lithium	<0.0032		0.0050	0.0032	mg/L		10/26/16 08:00	11/01/16 16:19	5
Lithium, Dissolved	<0.0032		0.0050	0.0032	mg/L		10/26/16 08:00	11/01/16 16:19	5
Thallium	<0.000085		0.00050	0.000085	mg/L		10/26/16 08:00	11/01/16 16:19	5
Thallium, Dissolved	<0.000085		0.00050	0.000085	mg/L		10/26/16 08:00	11/01/16 16:19	5

Lab Sample ID: LCS 400-328057/2-A
Matrix: Water
Analysis Batch: 329309

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 328057

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Arsenic	0.0500	0.0512		mg/L		102	80 - 120
Arsenic, Dissolved	0.0500	0.0512		mg/L		102	80 - 120
Barium	0.0500	0.0520		mg/L		104	80 - 120
Barium, Dissolved	0.0500	0.0520		mg/L		104	80 - 120
Beryllium	0.0500	0.0507		mg/L		101	80 - 120
Beryllium, Dissolved	0.0500	0.0507		mg/L		101	80 - 120
Boron	0.100	0.0991		mg/L		99	80 - 120
Boron, Dissolved	0.100	0.0991		mg/L		99	80 - 120
Cadmium	0.0500	0.0543		mg/L		109	80 - 120
Cadmium, Dissolved	0.0500	0.0543		mg/L		109	80 - 120
Calcium	5.00	4.91		mg/L		98	80 - 120
Calcium, Dissolved	5.00	4.91		mg/L		98	80 - 120
Chromium	0.0500	0.0475		mg/L		95	80 - 120
Chromium, Dissolved	0.0500	0.0475		mg/L		95	80 - 120
Cobalt	0.0500	0.0529		mg/L		106	80 - 120
Cobalt, Dissolved	0.0500	0.0529		mg/L		106	80 - 120
Lead	0.0500	0.0537		mg/L		107	80 - 120
Lead, Dissolved	0.0500	0.0537		mg/L		107	80 - 120
Antimony	0.0500	0.0518		mg/L		104	80 - 120
Antimony, Dissolved	0.0500	0.0518		mg/L		104	80 - 120
Molybdenum	0.0500	0.0487		mg/L		97	80 - 120
Molybdenum, Dissolved	0.0500	0.0487		mg/L		97	80 - 120
Selenium	0.0500	0.0500		mg/L		100	80 - 120
Selenium, Dissolved	0.0500	0.0500		mg/L		100	80 - 120

TestAmerica Pensacola

QC Sample Results

Client: Southern Company
Project/Site: CCR Plant Scherer

TestAmerica Job ID: 400-129004-1
SDG: Ash Pond

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

Lab Sample ID: LCS 400-328057/2-A
Matrix: Water
Analysis Batch: 329309

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 328057

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Lithium	0.0500	0.0527		mg/L		105	80 - 120
Lithium, Dissolved	0.0500	0.0527		mg/L		105	80 - 120
Thallium	0.0100	0.0107		mg/L		107	80 - 120
Thallium, Dissolved	0.0100	0.0107		mg/L		107	80 - 120

Lab Sample ID: 400-128929-A-8-C MS ^5
Matrix: Water
Analysis Batch: 329309

Client Sample ID: Matrix Spike
Prep Type: Total Recoverable
Prep Batch: 328057

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Arsenic	0.00048	J	0.0500	0.0521		mg/L		103	75 - 125
Arsenic, Dissolved	0.00048	J	0.0500	0.0521		mg/L		103	75 - 125
Barium	0.018		0.0500	0.0707		mg/L		105	75 - 125
Barium, Dissolved	0.018		0.0500	0.0707		mg/L		105	75 - 125
Beryllium	<0.00034		0.0500	0.0505		mg/L		101	75 - 125
Beryllium, Dissolved	<0.00034		0.0500	0.0505		mg/L		101	75 - 125
Boron	<0.021		0.100	0.119		mg/L		119	75 - 125
Boron, Dissolved	<0.021		0.100	0.119		mg/L		119	75 - 125
Cadmium	<0.00034		0.0500	0.0540		mg/L		108	75 - 125
Cadmium, Dissolved	<0.00034		0.0500	0.0540		mg/L		108	75 - 125
Calcium	51		5.00	55.1	4	mg/L		82	75 - 125
Calcium, Dissolved	51		5.00	55.1	4	mg/L		82	75 - 125
Chromium	<0.0011		0.0500	0.0488		mg/L		98	75 - 125
Chromium, Dissolved	<0.0011		0.0500	0.0488		mg/L		98	75 - 125
Cobalt	0.00072	J F1	0.0500	0.0577		mg/L		114	75 - 125
Cobalt, Dissolved	0.00072	J F1	0.0500	0.0577		mg/L		114	75 - 125
Lead	0.00068	J	0.0500	0.0547		mg/L		108	75 - 125
Lead, Dissolved	0.00068	J	0.0500	0.0547		mg/L		108	75 - 125
Antimony	<0.0010		0.0500	0.0537		mg/L		107	75 - 125
Antimony, Dissolved	<0.0010		0.0500	0.0537		mg/L		107	75 - 125
Molybdenum	<0.00085		0.0500	0.0492		mg/L		98	75 - 125
Molybdenum, Dissolved	<0.00085		0.0500	0.0492		mg/L		98	75 - 125
Selenium	0.00029	J	0.0500	0.0502		mg/L		100	75 - 125
Selenium, Dissolved	0.00029	J	0.0500	0.0502		mg/L		100	75 - 125
Lithium	<0.0032		0.0500	0.0528		mg/L		106	75 - 125
Lithium, Dissolved	<0.0032		0.0500	0.0528		mg/L		106	75 - 125
Thallium	<0.000085		0.0100	0.0105		mg/L		105	75 - 125
Thallium, Dissolved	<0.000085		0.0100	0.0105		mg/L		105	75 - 125

Lab Sample ID: 400-128929-A-8-D MSD ^5
Matrix: Water
Analysis Batch: 329309

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total Recoverable
Prep Batch: 328057

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	Limit
Arsenic	0.00048	J	0.0500	0.0578		mg/L		115	75 - 125	10	20
Arsenic, Dissolved	0.00048	J	0.0500	0.0578		mg/L		115	75 - 125	10	20
Barium	0.018		0.0500	0.0794		mg/L		122	75 - 125	12	20
Barium, Dissolved	0.018		0.0500	0.0794		mg/L		122	75 - 125	12	20
Beryllium	<0.00034		0.0500	0.0508		mg/L		102	75 - 125	1	20

TestAmerica Pensacola

QC Sample Results

Client: Southern Company
Project/Site: CCR Plant Scherer

TestAmerica Job ID: 400-129004-1
SDG: Ash Pond

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

Lab Sample ID: 400-128929-A-8-D MSD ^5
Matrix: Water
Analysis Batch: 329309

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total Recoverable
Prep Batch: 328057

Analyte	Sample	Sample	Spike	MSD	MSD	Unit	D	%Rec	%Rec.	RPD	Limit
	Result	Qualifier	Added	Result	Qualifier				Limits		
Beryllium, Dissolved	<0.00034		0.0500	0.0508		mg/L		102	75 - 125	1	20
Boron	<0.021		0.100	0.115		mg/L		115	75 - 125	4	20
Boron, Dissolved	<0.021		0.100	0.115		mg/L		115	75 - 125	4	20
Cadmium	<0.00034		0.0500	0.0581		mg/L		116	75 - 125	7	20
Cadmium, Dissolved	<0.00034		0.0500	0.0581		mg/L		116	75 - 125	7	20
Calcium	51		5.00	61.9	4	mg/L		218	75 - 125	12	20
Calcium, Dissolved	51		5.00	61.9	4	mg/L		218	75 - 125	12	20
Chromium	<0.0011		0.0500	0.0548		mg/L		110	75 - 125	12	20
Chromium, Dissolved	<0.0011		0.0500	0.0548		mg/L		110	75 - 125	12	20
Cobalt	0.00072	J F1	0.0500	0.0637	F1	mg/L		126	75 - 125	10	20
Cobalt, Dissolved	0.00072	J F1	0.0500	0.0637	F1	mg/L		126	75 - 125	10	20
Lead	0.00068	J	0.0500	0.0560		mg/L		111	75 - 125	2	20
Lead, Dissolved	0.00068	J	0.0500	0.0560		mg/L		111	75 - 125	2	20
Antimony	<0.0010		0.0500	0.0598		mg/L		120	75 - 125	11	20
Antimony, Dissolved	<0.0010		0.0500	0.0598		mg/L		120	75 - 125	11	20
Molybdenum	<0.00085		0.0500	0.0545		mg/L		109	75 - 125	10	20
Molybdenum, Dissolved	<0.00085		0.0500	0.0545		mg/L		109	75 - 125	10	20
Selenium	0.00029	J	0.0500	0.0494		mg/L		98	75 - 125	2	20
Selenium, Dissolved	0.00029	J	0.0500	0.0494		mg/L		98	75 - 125	2	20
Lithium	<0.0032		0.0500	0.0523		mg/L		105	75 - 125	1	20
Lithium, Dissolved	<0.0032		0.0500	0.0523		mg/L		105	75 - 125	1	20
Thallium	<0.000085		0.0100	0.0110		mg/L		110	75 - 125	5	20
Thallium, Dissolved	<0.000085		0.0100	0.0110		mg/L		110	75 - 125	5	20

Lab Sample ID: MB 400-328137/1-A ^5
Matrix: Water
Analysis Batch: 329065

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 328137

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Arsenic	<0.00046	^	0.0013	0.00046	mg/L		10/26/16 08:00	10/31/16 17:20	5
Barium	<0.00049	^	0.0025	0.00049	mg/L		10/26/16 08:00	10/31/16 17:20	5
Beryllium	<0.00034		0.0025	0.00034	mg/L		10/26/16 08:00	10/31/16 17:20	5
Boron	<0.021		0.050	0.021	mg/L		10/26/16 08:00	10/31/16 17:20	5
Cadmium	<0.00034	^	0.0025	0.00034	mg/L		10/26/16 08:00	10/31/16 17:20	5
Calcium	<0.13	^	0.25	0.13	mg/L		10/26/16 08:00	10/31/16 17:20	5
Chromium	<0.0011		0.0025	0.0011	mg/L		10/26/16 08:00	10/31/16 17:20	5
Cobalt	<0.00040		0.0025	0.00040	mg/L		10/26/16 08:00	10/31/16 17:20	5
Lead	<0.00035		0.0013	0.00035	mg/L		10/26/16 08:00	10/31/16 17:20	5
Antimony	<0.0010	^	0.0025	0.0010	mg/L		10/26/16 08:00	10/31/16 17:20	5
Molybdenum	<0.00085	^	0.015	0.00085	mg/L		10/26/16 08:00	10/31/16 17:20	5
Selenium	<0.00024		0.0013	0.00024	mg/L		10/26/16 08:00	10/31/16 17:20	5
Lithium	<0.0032		0.0050	0.0032	mg/L		10/26/16 08:00	10/31/16 17:20	5
Thallium	<0.000085		0.00050	0.000085	mg/L		10/26/16 08:00	10/31/16 17:20	5

TestAmerica Pensacola

QC Sample Results

Client: Southern Company
Project/Site: CCR Plant Scherer

TestAmerica Job ID: 400-129004-1
SDG: Ash Pond

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

Lab Sample ID: LCS 400-328137/2-A
Matrix: Water
Analysis Batch: 329065

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 328137

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	Limits
Arsenic	0.0500	0.0507	^	mg/L		101	80 - 120
Barium	0.0500	0.0504	^	mg/L		101	80 - 120
Beryllium	0.0500	0.0457		mg/L		91	80 - 120
Boron	0.100	0.100		mg/L		100	80 - 120
Cadmium	0.0500	0.0524	^	mg/L		105	80 - 120
Calcium	5.00	5.11	^	mg/L		102	80 - 120
Chromium	0.0500	0.0472		mg/L		94	80 - 120
Cobalt	0.0500	0.0451		mg/L		90	80 - 120
Lead	0.0500	0.0470		mg/L		94	80 - 120
Antimony	0.0500	0.0516	^	mg/L		103	80 - 120
Molybdenum	0.0500	0.0515	^	mg/L		103	80 - 120
Selenium	0.0500	0.0482		mg/L		96	80 - 120
Lithium	0.0500	0.0488		mg/L		98	80 - 120
Thallium	0.0100	0.0104		mg/L		104	80 - 120

Lab Sample ID: 400-129060-E-1-B MS ^5
Matrix: Water
Analysis Batch: 329065

Client Sample ID: Matrix Spike
Prep Type: Dissolved
Prep Batch: 328137

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	Limits
Arsenic	0.00058	J ^	0.0500	0.0542	^	mg/L		107	75 - 125
Barium	0.044	^	0.0500	0.0972	^	mg/L		107	75 - 125
Beryllium	<0.00034		0.0500	0.0500		mg/L		100	75 - 125
Boron	0.064		0.100	0.174		mg/L		110	75 - 125
Cadmium	<0.00034	^	0.0500	0.0538	^	mg/L		108	75 - 125
Calcium	110	^	5.00	119	4 ^	mg/L		94	75 - 125
Chromium	<0.0011		0.0500	0.0467		mg/L		93	75 - 125
Cobalt	<0.00040		0.0500	0.0509		mg/L		102	75 - 125
Lead	<0.00035		0.0500	0.0408		mg/L		82	75 - 125
Antimony	<0.0010	^	0.0500	0.0551	^	mg/L		110	75 - 125
Molybdenum	<0.00085	^	0.0500	0.0520	^	mg/L		104	75 - 125
Selenium	0.00088	J	0.0500	0.0524		mg/L		103	75 - 125
Lithium	0.0047	J	0.0500	0.0511		mg/L		93	75 - 125
Thallium	<0.00085		0.0100	0.0106		mg/L		106	75 - 125

Lab Sample ID: 400-129060-E-1-C MSD ^5
Matrix: Water
Analysis Batch: 329065

Client Sample ID: Matrix Spike Duplicate
Prep Type: Dissolved
Prep Batch: 328137

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Arsenic	0.00058	J ^	0.0500	0.0529	^	mg/L		105	75 - 125	2	20
Barium	0.044	^	0.0500	0.0944	^	mg/L		101	75 - 125	3	20
Beryllium	<0.00034		0.0500	0.0496		mg/L		99	75 - 125	1	20
Boron	0.064		0.100	0.169		mg/L		105	75 - 125	3	20
Cadmium	<0.00034	^	0.0500	0.0534	^	mg/L		107	75 - 125	1	20
Calcium	110	^	5.00	119	4 ^	mg/L		98	75 - 125	0	20
Chromium	<0.0011		0.0500	0.0468		mg/L		94	75 - 125	0	20
Cobalt	<0.00040		0.0500	0.0499		mg/L		100	75 - 125	2	20

TestAmerica Pensacola

QC Sample Results

Client: Southern Company
Project/Site: CCR Plant Scherer

TestAmerica Job ID: 400-129004-1
SDG: Ash Pond

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

Lab Sample ID: 400-129060-E-1-C MSD ^5
Matrix: Water
Analysis Batch: 329065

Client Sample ID: Matrix Spike Duplicate
Prep Type: Dissolved
Prep Batch: 328137

Analyte	Sample	Sample	Spike	MSD	MSD	Unit	D	%Rec	%Rec.	RPD	Limit
	Result	Qualifier		Result	Qualifier				Limits		
Lead	<0.00035		0.0500	0.0411		mg/L		82	75 - 125	1	20
Antimony	<0.0010	^	0.0500	0.0532	^	mg/L		106	75 - 125	4	20
Molybdenum	<0.00085	^	0.0500	0.0510	^	mg/L		102	75 - 125	2	20
Selenium	0.00088	J	0.0500	0.0524		mg/L		103	75 - 125	0	20
Lithium	0.0047	J	0.0500	0.0491		mg/L		89	75 - 125	4	20
Thallium	<0.000085		0.0100	0.0106		mg/L		106	75 - 125	0	20

Method: 7470A - Mercury (CVAA)

Lab Sample ID: MB 400-327704/14-A
Matrix: Water
Analysis Batch: 328567

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 327704

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Mercury	<0.000070		0.00020	0.000070	mg/L		10/21/16 09:30	10/27/16 12:46	1
Mercury, Dissolved	<0.000070		0.00020	0.000070	mg/L		10/21/16 09:30	10/27/16 12:46	1

Lab Sample ID: LCS 400-327704/15-A
Matrix: Water
Analysis Batch: 328567

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 327704

Analyte	Spike	LCS	LCS	Unit	D	%Rec	Limits
		Result	Qualifier				
Mercury	0.00101	0.000946		mg/L		94	80 - 120
Mercury, Dissolved	0.00101	0.000946		mg/L		94	80 - 120

Lab Sample ID: 400-128929-A-7-B MS
Matrix: Water
Analysis Batch: 328567

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 327704

Analyte	Sample	Sample	Spike	MS	MS	Unit	D	%Rec	%Rec.	Limits
	Result	Qualifier		Result	Qualifier					
Mercury	<0.000070		0.00201	0.00197		mg/L		98	80 - 120	
Mercury, Dissolved	<0.000070		0.00201	0.00197		mg/L		98	80 - 120	

Lab Sample ID: 400-128929-A-7-C MSD
Matrix: Water
Analysis Batch: 328567

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA
Prep Batch: 327704

Analyte	Sample	Sample	Spike	MSD	MSD	Unit	D	%Rec	%Rec.	RPD	Limit
	Result	Qualifier		Result	Qualifier						
Mercury	<0.000070		0.00201	0.00190		mg/L		94	80 - 120	4	20
Mercury, Dissolved	<0.000070		0.00201	0.00190		mg/L		94	80 - 120	4	20

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

Lab Sample ID: MB 400-328254/1
Matrix: Water
Analysis Batch: 328254

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

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Total Dissolved Solids	<3.4		5.0	3.4	mg/L			10/25/16 17:30	1

TestAmerica Pensacola

QC Sample Results

Client: Southern Company
 Project/Site: CCR Plant Scherer

TestAmerica Job ID: 400-129004-1
 SDG: Ash Pond

Lab Sample ID: LCS 400-328254/2
Matrix: Water
Analysis Batch: 328254

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	270		mg/L		92	78 - 122

Lab Sample ID: 400-128955-A-1 DU
Matrix: Water
Analysis Batch: 328254

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	930		934		mg/L		0	5

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TestAmerica Pensacola
 3355 McLemore Drive
 Pensacola, FL 32514
 Phone (850) 474-1001 Fax (850) 478-2871

Chain of Custody Record

TestAmerica
 THE LEADER IN ENVIRONMENTAL TESTING

Client Information Client Contact: Joji Abraham Company: Southern Company Address: 241 Ralph McGill Blvd SE B10185 City: Atlanta State, Zip: GA, 30308 Phone: Email: JAbraham@southernco.com Project Name: CCR - Scherer Site: Ash Pond		Lab P/N: Whitnir, Chyenne R E-Mail: chyenne.whitnir@testamericainc.com Carrier Tracking No(s): Lab # 129004 Analysis Requested		Sample: Ben Hodges Phone: 912-258-7457 Due Date Requested: TAT Requested (days): PO #: GPC10624814 WO #: Project #: 40007041 SSQW#:		COC No: 400-57303-24790.8 Page: Page 1 of 1 Job #: 129004 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 Other: M - Hexane N - None O - AsNaO2 P - Na2CO3 Q - Na2SO3 R - Na2S2O3 S - H2SO4 T - TSP Dodecalhydrate U - Acetone V - MCAA W - ph 4-5 Z - other (specify)	
Sample Identification Sample Date Sample Time Sample Type (C=comp, G=grab) Matrix (Inorganic, Organic, Composite) Preservation Code:		Field Filtered Sample (Yes or No) Field Filtered Sample (Yes or No) Field Filtered Sample (Yes or No) Field Filtered Sample (Yes or No)		Total Number of Containers Total Number of Containers Total Number of Containers Total Number of Containers		Special Instructions/Note: 1 Extra Rad 400-129004 COC	
SGWC-17 SGWC-17 (FILTERED) SGWC-18 FB-3(AP)		10/19/16 1058 10/19/16 1058 10/19/16 1005 10/19/16 1010		G G G G		Water Water Water Water	
Possible Hazard Identification <input checked="" type="checkbox"/> Non-Hazard <input type="checkbox"/> Flammable <input type="checkbox"/> Skin Irritant <input type="checkbox"/> Poison B <input type="checkbox"/> Unknown <input type="checkbox"/> Radiological		Date: 10/19/16 1600 Date: 10/19/16 1600 Date: 10/19/16 1600 Date: 10/19/16 1600		Date: 10/20/16 828 Date: 10/20/16 828 Date: 10/20/16 828 Date: 10/20/16 828		Special Instructions/OC Requirements: Sample Disposal (A fee may be assessed if samples are retained longer than 1 month) <input type="checkbox"/> Return To Client <input checked="" type="checkbox"/> Disposal By Lab <input type="checkbox"/> Archive For _____ Months	
Empty Kit Relinquished by: Relinquished by: [Signature] Relinquished by: Relinquished by:		Date: 10/19/16 1600 Date: 10/19/16 1600 Date: 10/19/16 1600 Date: 10/19/16 1600		Date: 10/20/16 828 Date: 10/20/16 828 Date: 10/20/16 828 Date: 10/20/16 828		Method of Shipment: Received by: [Signature] Received by: Received by: Cooler Temperature(°C) and Other Remarks: 4.0°C, 5.6°C IRG	

Login Sample Receipt Checklist

Client: Southern Company

Job Number: 400-129004-1

SDG Number: Ash Pond

Login Number: 129004

List Number: 1

Creator: Hughes, Nicholas T

List Source: TestAmerica Pensacola

Question	Answer	Comment
Radioactivity wasn't checked or is \leq background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	True	743045, 743046
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	4.0°C, 5.6°C IR-6
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 <math><6\text{mm}</math> (1/4").	N/A	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

Certification Summary

Client: Southern Company
Project/Site: CCR Plant Scherer

TestAmerica Job ID: 400-129004-1
SDG: Ash Pond

Laboratory: TestAmerica Pensacola

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

Authority	Program	EPA Region	Certification ID	Expiration Date
Alabama	State Program	4	40150	06-30-17
Arizona	State Program	9	AZ0710	01-11-17
Arkansas DEQ	State Program	6	88-0689	09-01-17
California	ELAP	9	2510	03-31-18
Florida	NELAP	4	E81010	06-30-17
Georgia	State Program	4	N/A	06-30-17
Illinois	NELAP	5	200041	10-09-17
Iowa	State Program	7	367	08-01-18
Kansas	NELAP	7	E-10253	10-31-17
Kentucky (UST)	State Program	4	53	06-30-17
Kentucky (WW)	State Program	4	98030	12-31-16
Louisiana	NELAP	6	30976	06-30-17
Maryland	State Program	3	233	09-30-17
Massachusetts	State Program	1	M-FL094	06-30-17
Michigan	State Program	5	9912	05-06-17
New Jersey	NELAP	2	FL006	06-30-17
North Carolina (WW/SW)	State Program	4	314	12-31-16
Oklahoma	State Program	6	9810	08-31-17
Pennsylvania	NELAP	3	68-00467	01-31-17
Rhode Island	State Program	1	LAO00307	12-30-16
South Carolina	State Program	4	96026	06-30-16 *
Tennessee	State Program	4	TN02907	06-30-17
Texas	NELAP	6	T104704286-16-10	09-30-17
USDA	Federal		P330-16-00172	05-24-19
Virginia	NELAP	3	460166	06-14-17
Washington	State Program	10	C915	05-15-17
West Virginia DEP	State Program	3	136	06-30-17

* Certification renewal pending - certification considered valid.

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THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

TestAmerica Laboratories, Inc.

TestAmerica Pensacola

3355 McLemore Drive

Pensacola, FL 32514

Tel: (850)474-1001

TestAmerica Job ID: 400-129004-2

TestAmerica Sample Delivery Group: Ash Pond

Client Project/Site: CCR Plant Scherer

For:

Southern Company

241 Ralph McGill Blvd SE

B10185

Atlanta, Georgia 30308

Attn: Joju Abraham



Authorized for release by:

11/29/2016 4:03:30 PM

Cheyenne Whitmire, Project Manager II

(850)471-6222

cheyenne.whitmire@testamericainc.com

LINKS

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The test results in this report meet all 2003 NELAC and 2009 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.

1

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11

12



Table of Contents

Cover Page	1
Table of Contents	2
Method Summary	3
Sample Summary	4
Client Sample Results	5
Definitions	9
Chronicle	10
QC Association	11
QC Sample Results	12
Chain of Custody	14
Receipt Checklists	15
Certification Summary	16

Method Summary

Client: Southern Company
Project/Site: CCR Plant Scherer

TestAmerica Job ID: 400-129004-2
SDG: Ash Pond

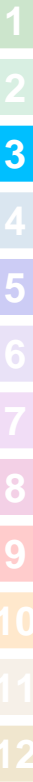
Method	Method Description	Protocol	Laboratory
9315	Radium-226 (GFPC)	SW846	TAL SL
9320	Radium-228 (GFPC)	SW846	TAL SL
Ra226_Ra228	Combined Radium-226 and Radium-228	TAL-STL	TAL SL

Protocol References:

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:

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



Sample Summary

Client: Southern Company
Project/Site: CCR Plant Scherer

TestAmerica Job ID: 400-129004-2
SDG: Ash Pond

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
400-129004-1	SGWC-17	Water	10/19/16 10:58	10/20/16 08:28
400-129004-2	SGWC-17 (FILTERED)	Water	10/19/16 10:58	10/20/16 08:28
400-129004-3	SGWC-18	Water	10/19/16 10:05	10/20/16 08:28
400-129004-4	FB-3(AP)	Water	10/19/16 10:10	10/20/16 08:28

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Client Sample Results

Client: Southern Company
Project/Site: CCR Plant Scherer

TestAmerica Job ID: 400-129004-2
SDG: Ash Pond

Client Sample ID: SGWC-17

Lab Sample ID: 400-129004-1

Date Collected: 10/19/16 10:58

Matrix: Water

Date Received: 10/20/16 08:28

Method: 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.0878	U	0.121	0.121	1.00	0.203	pCi/L	10/26/16 15:55	11/27/16 18:14	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	93.7		40 - 110					10/26/16 15:55	11/27/16 18:14	1

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.551		0.270	0.275	1.00	0.402	pCi/L	10/26/16 18:13	11/25/16 14:19	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	93.7		40 - 110					10/26/16 18:13	11/25/16 14:19	1
Y Carrier	90.8		40 - 110					10/26/16 18:13	11/25/16 14:19	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	0.639		0.296	0.300	5.00	0.402	pCi/L		11/29/16 11:15	1

Client Sample Results

Client: Southern Company
Project/Site: CCR Plant Scherer

TestAmerica Job ID: 400-129004-2
SDG: Ash Pond

Client Sample ID: SGWC-17 (FILTERED)

Lab Sample ID: 400-129004-2

Date Collected: 10/19/16 10:58

Matrix: Water

Date Received: 10/20/16 08:28

Method: 9315 - Radium-226 (GFPC) - Dissolved

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	-0.00595	U	0.108	0.108	1.00	0.225	pCi/L	10/26/16 15:55	11/27/16 18:14	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	90.3		40 - 110					10/26/16 15:55	11/27/16 18:14	1

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

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.325	U	0.223	0.225	1.00	0.345	pCi/L	10/26/16 18:13	11/25/16 14:19	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	90.3		40 - 110					10/26/16 18:13	11/25/16 14:19	1
Y Carrier	93.5		40 - 110					10/26/16 18:13	11/25/16 14:19	1

Method: Ra226_Ra228 - Combined Radium-226 and Radium-228 - Dissolved

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Combined Radium 226 + 228	0.320		0.248	0.250	5.00	0.345	pCi/L		11/29/16 11:43	1

Client Sample Results

Client: Southern Company
Project/Site: CCR Plant Scherer

TestAmerica Job ID: 400-129004-2
SDG: Ash Pond

Client Sample ID: SGWC-18

Lab Sample ID: 400-129004-3

Date Collected: 10/19/16 10:05

Matrix: Water

Date Received: 10/20/16 08:28

Method: 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.0958	U	0.127	0.127	1.00	0.213	pCi/L	10/26/16 15:55	11/27/16 18:14	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	88.6		40 - 110					10/26/16 15:55	11/27/16 18:14	1

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.337	U	0.227	0.229	1.00	0.349	pCi/L	10/26/16 18:13	11/25/16 14:20	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	88.6		40 - 110					10/26/16 18:13	11/25/16 14:20	1
Y Carrier	93.1		40 - 110					10/26/16 18:13	11/25/16 14:20	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	0.433		0.260	0.262	5.00	0.349	pCi/L		11/29/16 11:15	1

Client Sample Results

Client: Southern Company
Project/Site: CCR Plant Scherer

TestAmerica Job ID: 400-129004-2
SDG: Ash Pond

Client Sample ID: FB-3(AP)

Lab Sample ID: 400-129004-4

Date Collected: 10/19/16 10:10

Matrix: Water

Date Received: 10/20/16 08:28

Method: 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	-0.0354	U	0.103	0.103	1.00	0.233	pCi/L	10/26/16 15:55	11/27/16 18:15	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	86.0		40 - 110					10/26/16 15:55	11/27/16 18:15	1

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.134	U	0.279	0.279	1.00	0.473	pCi/L	10/26/16 18:13	11/25/16 14:20	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	86.0		40 - 110					10/26/16 18:13	11/25/16 14:20	1
Y Carrier	93.1		40 - 110					10/26/16 18:13	11/25/16 14:20	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	0.0987	U	0.297	0.298	5.00	0.473	pCi/L		11/29/16 11:15	1

Definitions/Glossary

Client: Southern Company
Project/Site: CCR Plant Scherer

TestAmerica Job ID: 400-129004-2
SDG: Ash Pond

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
CNF	Contains no Free Liquid
DER	Duplicate error ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision level concentration
MDA	Minimum detectable activity
EDL	Estimated Detection Limit
MDC	Minimum detectable concentration
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
NC	Not Calculated
ND	Not detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RER	Relative error ratio
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)

Lab Chronicle

Client: Southern Company
Project/Site: CCR Plant Scherer

TestAmerica Job ID: 400-129004-2
SDG: Ash Pond

Client Sample ID: SGWC-17

Date Collected: 10/19/16 10:58

Date Received: 10/20/16 08:28

Lab Sample ID: 400-129004-1

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			276113	10/26/16 15:55	AS	TAL SL
Total/NA	Analysis	9315		1	280957	11/27/16 18:14	MLK	TAL SL
Total/NA	Prep	PrecSep_0			276122	10/26/16 18:13	AS	TAL SL
Total/NA	Analysis	9320		1	280920	11/25/16 14:19	RTM	TAL SL
Total/NA	Analysis	Ra226_Ra228		1	281421	11/29/16 11:15	RTM	TAL SL

Client Sample ID: SGWC-17 (FILTERED)

Date Collected: 10/19/16 10:58

Date Received: 10/20/16 08:28

Lab Sample ID: 400-129004-2

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Dissolved	Prep	PrecSep-21			276113	10/26/16 15:55	AS	TAL SL
Dissolved	Analysis	9315		1	280957	11/27/16 18:14	MLK	TAL SL
Dissolved	Prep	PrecSep_0			276122	10/26/16 18:13	AS	TAL SL
Dissolved	Analysis	9320		1	280920	11/25/16 14:19	RTM	TAL SL
Dissolved	Analysis	Ra226_Ra228		1	281429	11/29/16 11:43	RTM	TAL SL

Client Sample ID: SGWC-18

Date Collected: 10/19/16 10:05

Date Received: 10/20/16 08:28

Lab Sample ID: 400-129004-3

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			276113	10/26/16 15:55	AS	TAL SL
Total/NA	Analysis	9315		1	280957	11/27/16 18:14	MLK	TAL SL
Total/NA	Prep	PrecSep_0			276122	10/26/16 18:13	AS	TAL SL
Total/NA	Analysis	9320		1	280920	11/25/16 14:20	RTM	TAL SL
Total/NA	Analysis	Ra226_Ra228		1	281421	11/29/16 11:15	RTM	TAL SL

Client Sample ID: FB-3(AP)

Date Collected: 10/19/16 10:10

Date Received: 10/20/16 08:28

Lab Sample ID: 400-129004-4

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			276113	10/26/16 15:55	AS	TAL SL
Total/NA	Analysis	9315		1	280957	11/27/16 18:15	MLK	TAL SL
Total/NA	Prep	PrecSep_0			276122	10/26/16 18:13	AS	TAL SL
Total/NA	Analysis	9320		1	280920	11/25/16 14:20	RTM	TAL SL
Total/NA	Analysis	Ra226_Ra228		1	281421	11/29/16 11:15	RTM	TAL SL

Laboratory References:

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

QC Association Summary

Client: Southern Company
Project/Site: CCR Plant Scherer

TestAmerica Job ID: 400-129004-2
SDG: Ash Pond

Rad

Prep Batch: 276113

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-129004-1	SGWC-17	Total/NA	Water	PrecSep-21	
400-129004-2	SGWC-17 (FILTERED)	Dissolved	Water	PrecSep-21	
400-129004-3	SGWC-18	Total/NA	Water	PrecSep-21	
400-129004-4	FB-3(AP)	Total/NA	Water	PrecSep-21	
MB 160-276113/1-A	Method Blank	Total/NA	Water	PrecSep-21	
LCS 160-276113/2-A	Lab Control Sample	Total/NA	Water	PrecSep-21	
400-129004-1 MS	SGWC-17	Total/NA	Water	PrecSep-21	
400-129004-1 MSD	SGWC-17	Total/NA	Water	PrecSep-21	

Prep Batch: 276122

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-129004-1	SGWC-17	Total/NA	Water	PrecSep_0	
400-129004-2	SGWC-17 (FILTERED)	Dissolved	Water	PrecSep_0	
400-129004-3	SGWC-18	Total/NA	Water	PrecSep_0	
400-129004-4	FB-3(AP)	Total/NA	Water	PrecSep_0	
MB 160-276122/1-A	Method Blank	Total/NA	Water	PrecSep_0	
LCS 160-276122/2-A	Lab Control Sample	Total/NA	Water	PrecSep_0	
400-129004-1 MS	SGWC-17	Total/NA	Water	PrecSep_0	
400-129004-1 MSD	SGWC-17	Total/NA	Water	PrecSep_0	

QC Sample Results

Client: Southern Company
Project/Site: CCR Plant Scherer

TestAmerica Job ID: 400-129004-2
SDG: Ash Pond

Method: 9315 - Radium-226 (GFPC)

Lab Sample ID: MB 160-276113/1-A
Matrix: Water
Analysis Batch: 280957

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 276113

Analyte	MB MB		Count	Total	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
	Result	Qualifier	Uncert. (2σ+/-)	Uncert. (2σ+/-)						
Radium-226	-0.009958	U	0.0993	0.0993	1.00	0.211	pCi/L	10/26/16 15:55	11/27/16 18:13	1
Carrier	MB MB		Limits		Prepared	Analyzed	Dil Fac			
Ba Carrier	%Yield	Qualifier	Limits							
Ba Carrier	93.4		40 - 110		10/26/16 15:55	11/27/16 18:13	1			

Lab Sample ID: LCS 160-276113/2-A
Matrix: Water
Analysis Batch: 280957

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 276113

Analyte	Spike Added	LCS Result	LCS Qual	Total	RL	MDC	Unit	%Rec	%Rec. Limits
				Uncert. (2σ+/-)					
Radium-226	11.1	13.79		1.53	1.00	0.210	pCi/L	124	68 - 137
Carrier	LCS LCS		Limits		Prepared	Analyzed	Dil Fac		
Ba Carrier	%Yield	Qualifier	Limits						
Ba Carrier	91.7		40 - 110		10/26/16 15:55	11/27/16 18:13	1		

Lab Sample ID: 400-129004-1 MS
Matrix: Water
Analysis Batch: 280957

Client Sample ID: SGWC-17
Prep Type: Total/NA
Prep Batch: 276113

Analyte	Sample Sample		Spike Added	MS	MS	Total	RL	MDC	Unit	%Rec	%Rec. Limits
	Result	Qual		Result	Qual	Uncert. (2σ+/-)					
Radium-226	0.0878	U	11.1	14.33		1.60	1.00	0.231	pCi/L	129	75 - 138
Carrier	MS MS		Limits		Prepared	Analyzed	Dil Fac				
Ba Carrier	%Yield	Qualifier	Limits								
Ba Carrier	84.0		40 - 110		10/26/16 15:55	11/27/16 18:13	1				

Lab Sample ID: 400-129004-1 MSD
Matrix: Water
Analysis Batch: 280957

Client Sample ID: SGWC-17
Prep Type: Total/NA
Prep Batch: 276113

Analyte	Sample Sample		Spike Added	MSD	MSD	Total	RL	MDC	Unit	%Rec	%Rec. Limits	RER	RER Limit
	Result	Qual		Result	Qual	Uncert. (2σ+/-)							
Radium-226	0.0878	U	11.1	15.02		1.64	1.00	0.217	pCi/L	135	75 - 138	0.21	1
Carrier	MSD MSD		Limits		Prepared	Analyzed	Dil Fac						
Ba Carrier	%Yield	Qualifier	Limits										
Ba Carrier	96.3		40 - 110		10/26/16 15:55	11/27/16 18:13	1						

QC Sample Results

Client: Southern Company
Project/Site: CCR Plant Scherer

TestAmerica Job ID: 400-129004-2
SDG: Ash Pond

Method: 9320 - Radium-228 (GFPC)

Lab Sample ID: MB 160-276122/1-A
Matrix: Water
Analysis Batch: 280920

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 276122

Analyte	MB Result	MB Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.4958		0.242	0.246	1.00	0.354	pCi/L	10/26/16 18:13	11/25/16 14:18	1

Carrier	MB %Yield	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
Ba Carrier	93.4		40 - 110	10/26/16 18:13	11/25/16 14:18	1
Y Carrier	90.1		40 - 110	10/26/16 18:13	11/25/16 14:18	1

Lab Sample ID: LCS 160-276122/2-A
Matrix: Water
Analysis Batch: 280920

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 276122

Analyte	Spike Added	LCS Result	LCS Qual	Total Uncert. (2σ+/-)	RL	MDC	Unit	%Rec	%Rec. Limits
Radium-228	14.2	14.49		1.55	1.00	0.350	pCi/L	102	56 - 140

Carrier	LCS %Yield	LCS Qualifier	Limits
Ba Carrier	91.7		40 - 110
Y Carrier	90.1		40 - 110

Lab Sample ID: 400-129004-1 MS
Matrix: Water
Analysis Batch: 280920

Client Sample ID: SGWC-17
Prep Type: Total/NA
Prep Batch: 276122

Analyte	Sample Result	Sample Qual	Spike Added	MS Result	MS Qual	Total Uncert. (2σ+/-)	RL	MDC	Unit	%Rec	%Rec. Limits
Radium-228	0.551		14.2	15.55		1.67	1.00	0.370	pCi/L	105	45 - 150

Carrier	MS %Yield	MS Qualifier	Limits
Ba Carrier	84.0		40 - 110
Y Carrier	88.2		40 - 110

Lab Sample ID: 400-129004-1 MSD
Matrix: Water
Analysis Batch: 280920

Client Sample ID: SGWC-17
Prep Type: Total/NA
Prep Batch: 276122

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	0.551		14.2	14.91		1.58	1.00	0.348	pCi/L	101	45 - 150	0.20	1

Carrier	MSD %Yield	MSD Qualifier	Limits
Ba Carrier	96.3		40 - 110
Y Carrier	89.3		40 - 110

TestAmerica Pensacola
 3355 McLemore Drive
 Pensacola, FL 32514
 Phone (850) 474-1001 Fax (850) 478-2871

Chain of Custody Record

TestAmerica
 THE LEADER IN ENVIRONMENTAL TESTING

Client Information Client Contact: Joji Abraham Company: Southern Company Address: 241 Ralph McGill Blvd SE B10185 City: Atlanta State, Zip: GA, 30308 Phone: Email: JAbraham@southernco.com Project Name: CCR - Scherer Site: Ash Pond		Lab P/N: Whitnir, Cheyenne R E-Mail: cheyenne.whitnir@testamericainc.com Carrier Tracking No(s): Job #: 129004								
Sampler: Ben Hodges Phone: 912-258-7457		COC No: 400-57303-24790.8 Page: Page 1 of 1								
Due Date Requested: TAT Requested (days): PO #: GPC10624814 WO #: Project #: 40007041 ISSQW#:		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 Other: M - Hexane N - None O - AsNaO2 P - Na2CO3 Q - Na2SO3 R - Na2S2O3 S - H2SO4 T - TSP Dodecahydrate U - Acetone V - MCAA W - ph 4-5 Z - other (specify)								
Sample Date Sample Time Sample Type (C=comp, G=grab) Matrix (Inorganic, Organic, Composite) Preservation Code:		Field Filtered Sample (Yes or No) Field Filled Sample (Yes or No) Total Number of Containers Special Instructions/Note: 1 Extra Rad								
SGWC-17	10/19/16	1058	G	Water	N	1	1	2	4	
SGWC-17 (FILTERED)	10/19/16	1058	G	Water	Y	1	1	1	3	
SGWC-18	10/19/16	1005	G	Water	N	1	1	1	3	
FB-3(AP)	10/19/16	1010	G	Water	N	1	1	1	3	
Possible Hazard Identification <input checked="" type="checkbox"/> Non-Hazard <input type="checkbox"/> Flammable <input type="checkbox"/> Skin Irritant Deliverable Requested: I, II, III, IV, Other (specify)										Sample Disposal (A fee may be assessed if samples are retained longer than 1 month) <input type="checkbox"/> Return To Client <input checked="" type="checkbox"/> Disposal By Lab <input type="checkbox"/> Archive For _____ Months
Empty Kit Relinquished by: Relinquished by: <i>[Signature]</i> Date/Time: 10/19/16 1600 Relinquished by: Date/Time: Relinquished by: Date/Time:										Method of Shipment: Received by: <i>[Signature]</i> Date/Time: 10/20/16 828 Company: TA Received by: Date/Time: Received by: Date/Time:
Custody Seals Intact: <input type="checkbox"/> Yes <input type="checkbox"/> No										Cooler Temperature(s) °C and Other Remarks: 4.0°C, 5.6°C IRG



400-129004 COC



Login Sample Receipt Checklist

Client: Southern Company

Job Number: 400-129004-2

SDG Number: Ash Pond

Login Number: 129004

List Number: 1

Creator: Hughes, Nicholas T

List Source: TestAmerica Pensacola

Question	Answer	Comment
Radioactivity wasn't checked or is \leq background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	True	743045, 743046
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	4.0°C, 5.6°C IR-6
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 <math><6\text{mm}</math> (1/4").	N/A	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	



Certification Summary

Client: Southern Company
Project/Site: CCR Plant Scherer

TestAmerica Job ID: 400-129004-2
SDG: Ash Pond

Laboratory: TestAmerica Pensacola

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

Authority	Program	EPA Region	Certification ID	Expiration Date
Alabama	State Program	4	40150	06-30-17
Arizona	State Program	9	AZ0710	01-11-17
Arkansas DEQ	State Program	6	88-0689	09-01-17
California	ELAP	9	2510	03-31-18
Florida	NELAP	4	E81010	06-30-17
Georgia	State Program	4	N/A	06-30-17
Illinois	NELAP	5	200041	10-09-17
Iowa	State Program	7	367	08-01-18
Kansas	NELAP	7	E-10253	10-31-17
Kentucky (UST)	State Program	4	53	06-30-17
Kentucky (WW)	State Program	4	98030	12-31-16
Louisiana	NELAP	6	30976	06-30-17
Louisiana (DW)	NELAP Secondary AB	6	LA170005	12-31-17
Maryland	State Program	3	233	09-30-17
Massachusetts	State Program	1	M-FL094	06-30-17
Michigan	State Program	5	9912	05-06-17
New Jersey	NELAP	2	FL006	06-30-17
North Carolina (WW/SW)	State Program	4	314	12-31-16
Oklahoma	State Program	6	9810	08-31-17
Pennsylvania	NELAP	3	68-00467	01-31-17
Rhode Island	State Program	1	LAO00307	12-30-16
South Carolina	State Program	4	96026	06-30-17
Tennessee	State Program	4	TN02907	06-30-17
Texas	NELAP	6	T104704286-16-10	09-30-17
USDA	Federal		P330-16-00172	05-24-19
Virginia	NELAP	3	460166	06-14-17
Washington	State Program	10	C915	05-15-17
West Virginia DEP	State Program	3	136	06-30-17

Laboratory: TestAmerica St. Louis

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

Authority	Program	EPA Region	Certification ID	Expiration Date
Alaska	State Program	10	MO00054	06-30-17
California	State Program	9	2886	03-31-18
Connecticut	State Program	1	PH-0241	03-31-17
Florida	NELAP	4	E87689	06-30-17
Illinois	NELAP	5	003757	11-30-16 *
Iowa	State Program	7	373	12-01-16 *
Kansas	NELAP	7	E-10236	10-31-17
Kentucky (DW)	State Program	4	90125	12-31-16
L-A-B	DoD ELAP		L2305	04-06-19
Louisiana	NELAP	6	04080	06-30-17
Louisiana (DW)	NELAP	6	LA160008	12-31-16 *
Maryland	State Program	3	310	09-30-17
Missouri	State Program	7	780	06-30-17
Nevada	State Program	9	MO000542016-1	07-31-17
New Jersey	NELAP	2	MO002	06-30-17
New York	NELAP	2	11616	03-31-17
North Dakota	State Program	8	R207	06-30-17

* Certification renewal pending - certification considered valid.

Certification Summary

Client: Southern Company
Project/Site: CCR Plant Scherer

TestAmerica Job ID: 400-129004-2
SDG: Ash Pond

Laboratory: TestAmerica St. Louis (Continued)

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

Authority	Program	EPA Region	Certification ID	Expiration Date
NRC	NRC		24-24817-01	12-31-22
Oklahoma	State Program	6	9997	08-31-17
Pennsylvania	NELAP	3	68-00540	02-28-17 *
South Carolina	State Program	4	85002001	06-30-17
Texas	NELAP	6	T104704193-16-10	07-31-17
US Fish & Wildlife	Federal		LE058448-0	10-31-17
USDA	Federal		P330-14-0016	01-09-17
Utah	NELAP	8	MO000542016-8	07-31-17
Virginia	NELAP	3	460230	06-14-17
Washington	State Program	10	C592	08-30-17
West Virginia DEP	State Program	3	381	08-31-17

* Certification renewal pending - certification considered valid.

Product Name: Low-Flow System

Date: 2016-10-13 17:20:14

Project Information:

Operator Name AME
Company Name Golder
Project Name Plant Scherer
Site Name Scherer
Latitude 0° 0' 0"
Longitude 0° 0' 0"
Sonde SN 354698
Turbidity Make/Model Lamotte

Pump Information:

Pump Model/Type QED Bladder pump
Tubing Type PE
Tubing Diameter 0.25 in
Tubing Length 45 ft

Pump placement from TOC 48 ft

Well Information:

Well ID SGWA-1
Well diameter 2 in
Well Total Depth 53.11 ft
Screen Length 10 ft
Depth to Water 41.20 ft

Pumping Information:

Final Pumping Rate 200 mL/min
Total System Volume 0.9193729 L
Calculated Sample Rate 300 sec
Stabilization Drawdown 0 in
Total Volume Pumped 12.2 L

Low-Flow Sampling Stabilization Summary

	Time	Elapsed	Temp C	pH	SpCond µS/	Turb NTU	DTW ft	RDO mg/L	ORP mV
			+/- 0.5	+/- 0.1	+/- 5%	+/- 10		+/- 10%	+/- 10
Stabilization									
Last 5	17:01:42	300.10	22.07	5.51	58.52	0.78	41.45	0.19	174.99
Last 5	17:06:42	600.03	21.35	5.51	56.70	0.94	41.45	0.31	172.91
Last 5	17:11:43	901.03	21.13	5.50	56.02	0.94	41.45	0.39	170.58
Last 5	17:16:44	1201.87	20.86	5.52	56.31	1.06	41.45	0.48	166.93
Last 5									
Variance 0			-0.72	-0.01	-1.82			0.12	-2.08
Variance 1			-0.22	-0.01	-0.68			0.09	-2.32
Variance 2			-0.27	0.02	0.29			0.09	-3.66

Notes

Second log - iPod overheated.
SGWA-1 sampled at 1717; 1.06 NTU. FD-1(AP)

Grab Samples

Product Name: Low-Flow System

Date: 2016-10-14 10:32:34

Project Information:

Operator Name AME
Company Name Golder
Project Name Plant Scherer
Site Name Scherer
Latitude 0° 0' 0"
Longitude 0° 0' 0"
Sonde SN 354698
Turbidity Make/Model Lamotte

Pump Information:

Pump Model/Type Dedicated Bladder pump
Tubing Type PE
Tubing Diameter 0.25 in
Tubing Length 82.5 ft

Pump placement from TOC 86 ft

Well Information:

Well ID SGWA-2
Well diameter 2 in
Well Total Depth 91.05 ft
Screen Length 10 ft
Depth to Water 41.45 ft

Pumping Information:

Final Pumping Rate 100 mL/min
Total System Volume 1.28135 L
Calculated Sample Rate 300 sec
Stabilization Drawdown 0 in
Total Volume Pumped 5.2 L

Low-Flow Sampling Stabilization Summary

	Time	Elapsed	Temp C	pH	SpCond µS/	Turb NTU	DTW ft	RDO mg/L	ORP mV
Stabilization			+/- 0.5	+/- 0.1	+/- 5%	+/- 10		+/- 10%	+/- 10
Last 5	10:09:13	1200.02	19.26	6.73	122.41	1.64	42.50	1.05	254.17
Last 5	10:14:13	1500.02	19.53	6.73	122.41	1.53	42.40	1.25	251.69
Last 5	10:19:13	1800.02	19.58	6.74	122.41	1.22	42.35	1.22	257.02
Last 5	10:24:13	2100.02	19.66	6.74	122.57	1.16	42.35	1.27	258.02
Last 5	10:29:13	2400.02	19.84	6.74	122.55	1.27	42.35	1.22	255.91
Variance 0			0.05	0.01	-0.00			-0.02	5.33
Variance 1			0.09	0.00	0.16			0.04	1.00
Variance 2			0.18	0.00	-0.02			-0.04	-2.11

Notes

SGWA-2 sampled at 10:30; 1.27 NTU.

Grab Samples

Product Name: Low-Flow System

Date: 2016-10-14 13:28:25

Project Information:

Operator Name AME
Company Name Golder
Project Name Plant Scherer
Site Name Scherer
Latitude 0° 0' 0"
Longitude 0° 0' 0"
Sonde SN 354698
Turbidity Make/Model Lamotte

Pump Information:

Pump Model/Type Dedicated Bladder pump
Tubing Type PE
Tubing Diameter 0.25 in
Tubing Length 44.7 ft

Pump placement from TOC 48.1 ft

Well Information:

Well ID SGWA-3
Well diameter 2 in
Well Total Depth 52.8 ft
Screen Length 10 ft
Depth to Water 34.68 ft

Pumping Information:

Final Pumping Rate 100 mL/min
Total System Volume 0.916477 L
Calculated Sample Rate 300 sec
Stabilization Drawdown 35.64 in
Total Volume Pumped 5.2 L

Low-Flow Sampling Stabilization Summary

	Time	Elapsed	Temp C	pH	SpCond µS/	Turb NTU	DTW ft	RDO mg/L	ORP mV
Stabilization			+/- 0.5	+/- 0.1	+/- 5%	+/- 10		+/- 10%	+/- 10
Last 5	13:04:23	1800.91	21.18	5.72	79.07	1.78	37.30	1.49	450.48
Last 5	13:09:23	2100.91	20.78	5.71	80.08	0.70	37.55	1.45	437.67
Last 5	13:14:23	2400.91	21.31	5.71	79.56	0.79	37.60	1.39	423.32
Last 5	13:19:23	2700.91	21.53	5.71	80.12	1.27	37.65	1.45	412.95
Last 5	13:24:23	3000.91	21.60	5.71	80.53	0.32	37.65	1.53	406.09
Variance 0			0.54	-0.00	-0.51			-0.06	-14.35
Variance 1			0.22	0.00	0.56			0.07	-10.37
Variance 2			0.07	0.00	0.41			0.07	-6.86

Notes

SGWA-3 sampled at 1326; 0.32 NTU.

Grab Samples

Product Name: Low-Flow System

Date: 2016-10-17 12:38:39

Project Information:

Operator Name AME
Company Name Golder
Project Name Plant Scherer
Site Name Scherer
Latitude 0° 0' 0"
Longitude 0° 0' 0"
Sonde SN 354698
Turbidity Make/Model Lamotte

Pump Information:

Pump Model/Type Dedicated Bladder pump
Tubing Type PE
Tubing Diameter 0.25 in
Tubing Length 54.80 ft

Pump placement from TOC 51.40 ft

Well Information:

Well ID SGWA-4
Well diameter 2 in
Well Total Depth 63.2 ft
Screen Length 10 ft
Depth to Water 47.57 ft

Pumping Information:

Final Pumping Rate 100 mL/min
Total System Volume 1.01397 L
Calculated Sample Rate 300 sec
Stabilization Drawdown 19.44 in
Total Volume Pumped 4.1 L

Low-Flow Sampling Stabilization Summary

	Time	Elapsed	Temp C	pH	SpCond µS/	Turb NTU	DTW ft	RDO mg/L	ORP mV
Stabilization			+/- 0.5	+/- 0.1	+/- 5%	+/- 10		+/- 10%	+/- 10
Last 5	12:12:18	1200.02	21.98	6.44	153.71	2.76	48.91	3.36	303.60
Last 5	12:17:18	1499.91	21.49	6.44	153.80	2.29	49.05	3.14	276.03
Last 5	12:22:18	1799.91	21.36	6.44	153.94	2.30	49.10	3.06	264.92
Last 5	12:27:18	2099.91	21.09	6.44	154.97	1.44	49.12	3.07	261.39
Last 5	12:32:18	2399.91	21.14	6.44	155.57	1.06	49.19	3.12	261.21
Variance 0			-0.13	-0.00	0.14			-0.08	-11.10
Variance 1			-0.27	0.01	1.03			0.01	-3.53
Variance 2			0.04	-0.00	0.60			0.05	-0.18

Notes

SGWA-4 sampled at 1233; 1.06 NTU. FB-1(AP) sampled at 1245.

Grab Samples

Product Name: Low-Flow System

Date: 2016-10-14 15:28:30

Project Information:

Operator Name DC
Company Name Golder
Project Name Plant Scherer
Site Name Scherer
Latitude 0° 0' 0"
Longitude 0° 0' 0"
Sonde SN 417070
Turbidity Make/Model LaMotte

Pump Information:

Pump Model/Type QED ST1102PM
Tubing Type poly
Tubing Diameter 0.17 in
Tubing Length 24.36 ft

Pump placement from TOC 24.36 ft

Well Information:

Well ID SGWA-5
Well diameter 2 in
Well Total Depth 33.1 ft
Screen Length 10 ft
Depth to Water 18.56 ft

Pumping Information:

Final Pumping Rate 100 mL/min
Total System Volume 0.09 L
Calculated Sample Rate 300 sec
Stabilization Drawdown 5 in
Total Volume Pumped 3 L

Low-Flow Sampling Stabilization Summary

	Time	Elapsed	Temp C	pH	SpCond μ S/	Turb NTU	DTW ft	RDO mg/L	ORP mV
Stabilization			+/- 0.5	+/- 0.1	+/- 5%	+/- 10		+/- 10%	+/- 10
Last 5	15:06:56	900.02	21.99	5.65	52.41	1.14	17.90	3.32	160.19
Last 5	15:11:56	1200.02	21.84	5.63	52.04	1.03	17.92	3.17	159.45
Last 5	15:16:56	1500.02	21.69	5.61	51.56	0.89	17.92	2.88	158.21
Last 5	15:21:56	1800.02	21.64	5.59	51.37	0.80	17.93	2.78	157.11
Last 5	15:26:56	2100.02	21.52	5.59	51.26	0.42	17.93	2.72	156.46
Variance 0			-0.15	-0.02	-0.48			-0.30	-1.23
Variance 1			-0.05	-0.01	-0.19			-0.09	-1.10
Variance 2			-0.12	-0.01	-0.11			-0.06	-0.65

Notes

SGWA-5 sampled at 15:28.

Grab Samples

Product Name: Low-Flow System

Date: 2016-10-17 15:50:03

Project Information:

Operator Name AME
Company Name Golder
Project Name Plant Scherer
Site Name Scherer
Latitude 0° 0' 0"
Longitude 0° 0' 0"
Sonde SN 354698
Turbidity Make/Model Lamotte

Pump Information:

Pump Model/Type Dedicated Bladder pump
Tubing Type PE
Tubing Diameter 0.25 in
Tubing Length 19.21 ft

Pump placement from TOC 22.61 ft

Well Information:

Well ID SGWC-6
Well diameter 2 in
Well Total Depth 27.6 ft
Screen Length 10 ft
Depth to Water 15.52 ft

Pumping Information:

Final Pumping Rate 100 mL/min
Total System Volume 0.6704289 L
Calculated Sample Rate 300 sec
Stabilization Drawdown 20.04 in
Total Volume Pumped 4 L

Low-Flow Sampling Stabilization Summary

	Time	Elapsed	Temp C	pH	SpCond µS/	Turb NTU	DTW ft	RDO mg/L	ORP mV
Stabilization			+/- 0.5	+/- 0.1	+/- 5%	+/- 10		+/- 10%	+/- 10
Last 5	15:26:06	1200.02	22.25	6.30	115.21	0.76	16.96	0.49	407.51
Last 5	15:31:06	1500.02	22.54	6.30	116.23	0.71	17.02	0.45	390.55
Last 5	15:36:06	1800.32	22.36	6.30	115.40	0.53	17.08	0.42	383.81
Last 5	15:41:06	2100.32	22.21	6.31	115.39	0.65	17.10	0.43	387.93
Last 5	15:46:06	2400.32	22.05	6.30	115.32	1.28	17.14	0.42	382.53
Variance 0			-0.18	0.00	-0.83			-0.02	-6.74
Variance 1			-0.16	0.00	-0.01			0.01	4.12
Variance 2			-0.15	-0.00	-0.06			-0.01	-5.40

Notes

SGWC-6 sampled at 1546; 1.28 NTU.

Grab Samples

Product Name: Low-Flow System

Date: 2016-10-18 10:16:43

Project Information:

Operator Name AME
Company Name Golder
Project Name Plant Scherer
Site Name Scherer
Latitude 0° 0' 0"
Longitude 0° 0' 0"
Sonde SN 354698
Turbidity Make/Model Lamotte

Pump Information:

Pump Model/Type Dedicated Bladder pump
Tubing Type PE
Tubing Diameter 0.25 in
Tubing Length 29.7 ft

Pump placement from TOC 33.15 ft

Well Information:

Well ID SGWC-7
Well diameter 2 in
Well Total Depth 37.7 ft
Screen Length 10 ft
Depth to Water 14.45 ft

Pumping Information:

Final Pumping Rate 100 mL/min
Total System Volume 0.7716861 L
Calculated Sample Rate 300 sec
Stabilization Drawdown 1.44 in
Total Volume Pumped 3.6 L

Low-Flow Sampling Stabilization Summary

	Time	Elapsed	Temp C	pH	SpCond µS/	Turb NTU	DTW ft	RDO mg/L	ORP mV
Stabilization			+/- 0.5	+/- 0.1	+/- 5%	+/- 10		+/- 10%	+/- 10
Last 5	09:52:30	900.03	20.83	6.64	334.06	1.85	14.55	0.77	25.22
Last 5	09:57:30	1200.02	20.87	6.62	333.52	1.30	14.55	0.45	27.52
Last 5	10:02:30	1500.03	20.42	6.62	336.33	1.08	14.57	0.34	29.20
Last 5	10:07:30	1800.57	20.42	6.61	333.55	1.09	14.60	0.29	38.84
Last 5	10:12:30	2100.57	20.51	6.59	328.31	0.72	14.57	0.28	42.59
Variance 0			-0.45	-0.00	2.81			-0.10	1.68
Variance 1			-0.00	-0.01	-2.79			-0.05	9.63
Variance 2			0.09	-0.02	-5.23			-0.02	3.75

Notes

SGWC-7 sampled at 1013; 0.76 NTU.

Grab Samples

Product Name: Low-Flow System

Date: 2016-10-17 12:41:19

Project Information:

Operator Name **BH**
Company Name **Golder Plant**
Project Name **Scherer**
Site Name **Scherer**
Latitude **0° 0' 0"**
Longitude **0° 0' 0"**
Sonde SN **354627**
Turbidity Make/Model **LaMotte**

Pump Information:

Pump Model/Type **QED**
Tubing Type **polyethylene**
Tubing Diameter **.25 in**
Tubing Length **29.3 ft**

Pump placement from TOC **29.3 ft**

Well Information:

Well ID **SGWC-8**
Well diameter **2 in**
Well Total Depth **37.7 ft**
Screen Length **10 ft**
Depth to Water **22.35 ft**

Pumping Information:

Final Pumping Rate **100 mL/min**
Total System Volume **0.767825 L**
Calculated Sample Rate **300 sec**
Stabilization Drawdown **2.52 in**
Total Volume Pumped **4 L**

Low-Flow Sampling Stabilization Summary

	Time	Elapsed	Temp C	pH	SpCond µS/	Turb NTU	DTW ft	RDO mg/L	ORP mV
Stabilization			+/- 0.5	+/- 0.1	+/- 5%	+/- 10		+/- 10%	+/- 10
Last 5	12:20:11	1200.02	19.89	6.44	606.82	0.10	22.56	2.23	575.85
Last 5	12:25:11	1500.03	19.83	6.42	498.33	0.47	22.56	2.14	551.99
Last 5	12:30:11	1800.02	19.96	6.42	605.95	0.43	22.56	2.21	545.39
Last 5	12:35:11	2100.02	20.30	6.42	605.46	0.08	22.56	2.26	545.00
Last 5	12:40:11	2400.02	20.75	6.43	604.26	0.22	22.56	2.27	553.11
Variance 0			0.13	-0.01	107.62			0.06	-6.61
Variance 1			0.34	0.00	-0.49			0.05	-0.38
Variance 2			0.44	0.01	-1.20			0.01	8.11

Notes

Sampled at 1245

Grab Samples

Product Name: Low-Flow System

Date: 2016-10-18 15:12:50

Project Information:

Operator Name BH
Company Name Golder
Project Name Plant Scherer
Site Name Scherer
Latitude 0° 0' 0"
Longitude 0° 0' 0"
Sonde SN 354627
Turbidity Make/Model LaMotte

Pump Information:

Pump Model/Type QED
Tubing Type polyethylene
Tubing Diameter .25 in
Tubing Length 29.4 ft

Pump placement from TOC 29.4 ft

Well Information:

Well ID SGWC-9
Well diameter 2 in
Well Total Depth 37.8 ft
Screen Length 10 ft
Depth to Water 21.15 ft

Pumping Information:

Final Pumping Rate 150 mL/min
Total System Volume 0.7687903 L
Calculated Sample Rate 300 sec
Stabilization Drawdown 8.52 in
Total Volume Pumped 3 L

Low-Flow Sampling Stabilization Summary

	Time	Elapsed	Temp C	pH	SpCond µS/	Turb NTU	DTW ft	RDO mg/L	ORP mV
Stabilization			+/- 0.5	+/- 0.1	+/- 5%	+/- 10		+/- 10%	+/- 10
Last 5	14:56:27	300.03	21.71	6.17	665.58	4.38	21.71	1.75	611.98
Last 5	15:01:27	600.02	21.04	6.13	670.70	4.73	21.80	0.91	636.60
Last 5	15:06:27	900.02	20.77	6.13	668.39	2.81	21.85	0.84	650.16
Last 5	15:11:27	1200.02	20.67	6.11	666.17	3.36	21.86	0.54	659.82
Last 5									
Variance 0			-0.68	-0.04	5.12			-0.84	24.62
Variance 1			-0.27	-0.00	-2.31			-0.07	13.56
Variance 2			-0.09	-0.01	-2.22			-0.30	9.65

Notes

Sampled at 1515

Grab Samples

Product Name: Low-Flow System

Date: 2016-10-17 14:09:25

Project Information:

Operator Name **BH**
Company Name **Golder**
Project Name **Plant Scherer**
Site Name **Scherer**
Latitude **0° 0' 0"**
Longitude **0° 0' 0"**
Sonde SN **354627**
Turbidity Make/Model **LaMotte**

Pump Information:

Pump Model/Type **QED**
Tubing Type **polyethylene**
Tubing Diameter **.25 in**
Tubing Length **24.2 ft**

Pump placement from TOC **24.2 ft**

Well Information:

Well ID **SGWC-10**
Well diameter **2 in**
Well Total Depth **32.6 ft**
Screen Length **10 ft**
Depth to Water **18.13 ft**

Pumping Information:

Final Pumping Rate **100 mL/min**
Total System Volume **0.7185961 L**
Calculated Sample Rate **300 sec**
Stabilization Drawdown **18 in**
Total Volume Pumped **3 L**

Low-Flow Sampling Stabilization Summary

	Time	Elapsed	Temp C	pH	SpCond μ S/	Turb NTU	DTW ft	RDO mg/L	ORP mV
Stabilization			+/- 0.5	+/- 0.1	+/- 5%	+/- 10		+/- 10%	+/- 10
Last 5	13:48:34	600.02	20.28	5.47	81.53	2.43	19.40	1.49	614.04
Last 5	13:53:34	900.02	20.23	5.44	81.87	1.70	19.63	0.97	606.77
Last 5	13:58:34	1200.02	20.59	5.44	81.96	1.21	19.63	0.64	573.88
Last 5	14:03:34	1500.02	20.50	5.44	82.66	1.14	19.63	0.44	546.94
Last 5	14:08:34	1800.03	20.73	5.45	83.26	0.61	19.63	0.41	529.48
Variance 0			0.36	-0.00	0.09			-0.33	-32.89
Variance 1			-0.09	0.01	0.71			-0.20	-26.95
Variance 2			0.23	0.01	0.60			-0.03	-17.46

Notes

Sampled at 1410

Grab Samples

Product Name: Low-Flow System

Date: 2016-10-17 15:40:13

Project Information:

Operator Name **BH**
Company Name **Golder**
Project Name **Plant Scherer**
Site Name **Scherer**
Latitude **0° 0' 0"**
Longitude **0° 0' 0"**
Sonde SN **354627**
Turbidity Make/Model **LaMotte**

Pump Information:

Pump Model/Type **QED**
Tubing Type **polyethylene**
Tubing Diameter **.25 in**
Tubing Length **34.3 ft**

Pump placement from TOC **34.3 ft**

Well Information:

Well ID **SGWC-11**
Well diameter **2 in**
Well Total Depth **42.7 ft**
Screen Length **10 ft**
Depth to Water **19.73 ft**

Pumping Information:

Final Pumping Rate **100 mL/min**
Total System Volume **0.8160887 L**
Calculated Sample Rate **300 sec**
Stabilization Drawdown **6.6 in**
Total Volume Pumped **4 L**

Low-Flow Sampling Stabilization Summary

	Time	Elapsed	Temp C	pH	SpCond µS/	Turb NTU	DTW ft	RDO mg/L	ORP mV
Stabilization			+/- 0.5	+/- 0.1	+/- 5%	+/- 10		+/- 10%	+/- 10
Last 5	15:18:07	1200.02	21.97	5.74	115.09	5.44	21.22	0.84	311.96
Last 5	15:23:07	1500.02	21.50	5.75	112.27	2.22	21.25	1.71	336.16
Last 5	15:28:07	1800.03	21.93	5.71	110.50	1.30	21.27	1.07	333.30
Last 5	15:33:07	2100.02	21.84	5.70	109.34	0.90	21.28	0.88	346.39
Last 5	15:38:07	2400.02	21.97	5.69	107.27	1.00	21.28	0.90	352.52
Variance 0			0.43	-0.04	-1.77			-0.63	-2.87
Variance 1			-0.10	-0.01	-1.16			-0.19	13.09
Variance 2			0.14	-0.02	-2.07			0.02	6.13

Notes

Sampled at 1540

Grab Samples

Product Name: Low-Flow System

Date: 2016-10-17 12:26:20

Project Information:

Operator Name DC
Company Name Golder
Project Name Plant Scherer
Site Name Scherer
Latitude 0° 0' 0"
Longitude 0° 0' 0"
Sonde SN 417070
Turbidity Make/Model LaMotte

Pump Information:

Pump Model/Type QED ST1102PM
Tubing Type poly
Tubing Diameter 0.17 in
Tubing Length 41.87 ft

Pump placement from TOC 41.87 ft

Well Information:

Well ID SGWC-12
Well diameter 2 in
Well Total Depth 50.2 ft
Screen Length 10 ft
Depth to Water 15.92 ft

Pumping Information:

Final Pumping Rate 100 mL/min
Total System Volume 0.485 L
Calculated Sample Rate 300 sec
Stabilization Drawdown 20 in
Total Volume Pumped 3.3 L

Low-Flow Sampling Stabilization Summary

	Time	Elapsed	Temp C	pH	SpCond µS/	Turb NTU	DTW ft	RDO mg/L	ORP mV
Stabilization			+/- 0.5	+/- 0.1	+/- 5%	+/- 10		+/- 10%	+/- 10
Last 5	12:02:51	900.02	23.16	6.27	301.09	11.94	17.33	1.27	-96.75
Last 5	12:07:51	1200.02	23.01	6.28	300.77	9.66	17.51	1.31	-93.85
Last 5	12:12:51	1500.03	23.47	6.27	301.97	7.14	17.51	0.94	-95.07
Last 5	12:17:51	1800.59	23.58	6.27	298.63	5.47	17.53	0.75	-95.39
Last 5	12:22:51	2100.59	23.56	6.27	299.72	4.30	17.57	0.76	-94.43
Variance 0			0.46	-0.01	1.20			-0.36	-1.22
Variance 1			0.11	0.00	-3.34			-0.19	-0.32
Variance 2			-0.02	-0.00	1.08			0.01	0.96

Notes

SGWC-12 sampled at 12:24. Extra radium

Grab Samples

Product Name: Low-Flow System

Date: 2016-10-17 14:23:12

Project Information:

Operator Name DC
Company Name Golder
Project Name Plant Scherer
Site Name Scherer
Latitude 0° 0' 0"
Longitude 0° 0' 0"
Sonde SN 417070
Turbidity Make/Model LaMotte

Pump Information:

Pump Model/Type QED ST1102PM
Tubing Type poly
Tubing Diameter 0.17 in
Tubing Length 29.0 ft

Pump placement from TOC 29.0 ft

Well Information:

Well ID SGWC-13
Well diameter 2 in
Well Total Depth 37.5 ft
Screen Length 10 ft
Depth to Water 4.51 ft

Pumping Information:

Final Pumping Rate 100 mL/min
Total System Volume 0.09 L
Calculated Sample Rate 300 sec
Stabilization Drawdown 9 in
Total Volume Pumped 4.2 L

Low-Flow Sampling Stabilization Summary

	Time	Elapsed	Temp C	pH	SpCond μ S/	Turb NTU	DTW ft	RDO mg/L	ORP mV
Stabilization			+/- 0.5	+/- 0.1	+/- 5%	+/- 10		+/- 10%	+/- 10
Last 5	14:04:43	300.11	23.52	6.02	245.36	7.50	5.18	0.74	7.49
Last 5	14:09:43	600.03	23.79	6.01	245.68	6.69	5.19	0.68	9.41
Last 5	14:14:43	900.02	23.91	6.00	245.17	5.37	5.19	0.67	9.96
Last 5	14:19:43	1200.09	24.02	6.01	244.65	4.66	5.20	0.61	11.45
Last 5									
Variance 0			0.27	-0.01	0.33			-0.06	1.93
Variance 1			0.12	-0.01	-0.51			-0.01	0.55
Variance 2			0.11	0.00	-0.52			-0.06	1.49

Notes

Began @ 1340, iPod crashed @ 1358 and was restarted @ 1400. SGWC-13 sampled at 14:20.

Grab Samples

Product Name: Low-Flow System

Date: 2016-10-17 16:39:09

Project Information:

Operator Name DC
Company Name Golder
Project Name Plant Scherer
Site Name Scherer
Latitude 0° 0' 0"
Longitude 0° 0' 0"
Sonde SN 417070
Turbidity Make/Model LaMotte

Pump Information:

Pump Model/Type QED ST1102PM
Tubing Type poly
Tubing Diameter 0.17 in
Tubing Length 30.14 ft

Pump placement from TOC 30.24 ft

Well Information:

Well ID SGWC-14
Well diameter 2 in
Well Total Depth 38.5 ft
Screen Length 10 ft
Depth to Water 11.26 ft

Pumping Information:

Final Pumping Rate 100 mL/min
Total System Volume 0.6195276 L
Calculated Sample Rate 300 sec
Stabilization Drawdown 0 in
Total Volume Pumped 8.5 L

Low-Flow Sampling Stabilization Summary

	Time	Elapsed	Temp C	pH	SpCond µS/	Turb NTU	DTW ft	RDO mg/L	ORP mV
Stabilization			+/- 0.5	+/- 0.1	+/- 5%	+/- 10		+/- 10%	+/- 10
Last 5	16:17:25	4200.57	21.24	5.74	465.09	7.70	11.26	0.52	115.44
Last 5	16:22:25	4500.57	21.06	5.73	464.13	6.84	11.26	0.46	115.59
Last 5	16:27:25	4800.57	20.75	5.72	465.64	6.25	11.26	0.47	114.96
Last 5	16:32:25	5100.57	20.70	5.73	463.95	6.04	11.26	0.38	113.57
Last 5	16:37:25	5400.57	20.39	5.73	465.52	4.73	11.26	0.36	112.91
Variance 0			-0.31	-0.01	1.51			0.01	-0.62
Variance 1			-0.04	0.01	-1.69			-0.09	-1.39
Variance 2			-0.31	-0.01	1.57			-0.02	-0.66

Notes

Sampled @ 1638

Grab Samples

Product Name: Low-Flow System

Date: 2016-10-18 10:17:30

Project Information:

Operator Name DC
Company Name Golder
Project Name Plant Scherer
Site Name Scherer
Latitude 0° 0' 0"
Longitude 0° 0' 0"
Sonde SN 417070
Turbidity Make/Model LaMotte

Pump Information:

Pump Model/Type QED ST1102PM
Tubing Type poly
Tubing Diameter 0.17 in
Tubing Length 39.65 ft

Pump placement from TOC 39.65 ft

Well Information:

Well ID SGWC-15
Well diameter 2 in
Well Total Depth 48.2 ft
Screen Length 10 ft
Depth to Water 30.39 ft

Pumping Information:

Final Pumping Rate 250 mL/min
Total System Volume 0.6619747 L
Calculated Sample Rate 300 sec
Stabilization Drawdown 0.5 in
Total Volume Pumped 16 L

Low-Flow Sampling Stabilization Summary

	Time	Elapsed	Temp C	pH	SpCond µS/	Turb NTU	DTW ft	RDO mg/L	ORP mV
			+/- 0.5	+/- 0.1	+/- 5%	+/- 10		+/- 10%	+/- 10
Stabilization									
Last 5	09:54:53	3300.02	18.66	4.61	450.91	10.42	30.42	1.23	353.34
Last 5	09:59:53	3600.02	18.71	4.60	451.60	8.61	30.42	1.20	375.93
Last 5	10:04:53	3900.03	18.76	4.61	451.17	6.89	30.42	1.18	365.61
Last 5	10:09:53	4200.02	18.83	4.61	451.00	5.88	30.42	1.16	386.60
Last 5	10:14:53	4500.03	18.89	4.62	451.23	4.71	30.42	1.13	394.23
Variance 0			0.05	0.01	-0.43			-0.02	-10.33
Variance 1			0.07	-0.00	-0.16			-0.02	20.99
Variance 2			0.05	0.01	0.22			-0.03	7.64

Notes

Sampled @ 1015

Grab Samples

Product Name: Low-Flow System

Date: 2016-10-18 11:51:15

Project Information:

Operator Name DC
Company Name Golder
Project Name Plant Scherer
Site Name Scherer
Latitude 0° 0' 0"
Longitude 0° 0' 0"
Sonde SN 417070
Turbidity Make/Model LaMotte

Pump Information:

Pump Model/Type QED ST1102PM
Tubing Type poly
Tubing Diameter 0.17 in
Tubing Length 34.62 ft

Pump placement from TOC 34.62 ft

Well Information:

Well ID SGWC-16
Well diameter 2 in
Well Total Depth 43.3 ft
Screen Length 10 ft
Depth to Water 26.34 ft

Pumping Information:

Final Pumping Rate 200 mL/min
Total System Volume 0.6395237 L
Calculated Sample Rate 300 sec
Stabilization Drawdown 1 in
Total Volume Pumped 8 L

Low-Flow Sampling Stabilization Summary

	Time	Elapsed	Temp C	pH	SpCond µS/	Turb NTU	DTW ft	RDO mg/L	ORP mV
Stabilization			+/- 0.5	+/- 0.1	+/- 5%	+/- 10		+/- 10%	+/- 10
Last 5	11:29:09	1200.02	19.89	5.26	77.84	26.10	26.41	2.72	191.38
Last 5	11:34:09	1500.02	19.59	5.25	79.85	16.30	26.41	2.60	187.43
Last 5	11:39:09	1800.02	19.64	5.25	81.13	9.80	26.41	2.58	183.59
Last 5	11:44:09	2100.02	19.77	5.25	81.97	6.16	26.41	2.56	180.78
Last 5	11:49:09	2400.02	19.62	5.23	81.38	4.59	26.41	2.54	179.42
Variance 0			0.04	0.01	1.28			-0.02	-3.84
Variance 1			0.13	-0.01	0.84			-0.02	-2.81
Variance 2			-0.15	-0.02	-0.59			-0.02	-1.36

Notes

Sampled @ 1150, FD-2(AP) @ 1200

Grab Samples

Product Name: Low-Flow System

Date: 2016-10-18 16:17:45

Project Information:

Operator Name DC
Company Name Golder
Project Name Plant Scherer
Site Name Scherer
Latitude 0° 0' 0"
Longitude 0° 0' 0"
Sonde SN 417070
Turbidity Make/Model LaMotte

Pump Information:

Pump Model/Type QED ST1102PM
Tubing Type poly
Tubing Diameter 0.17 in
Tubing Length 19.24 ft

Pump placement from TOC 19.24 ft

Well Information:

Well ID SGWC-17
Well diameter 2 in
Well Total Depth 27.6 ft
Screen Length 10 ft
Depth to Water 0.68 ft

Pumping Information:

Final Pumping Rate 100 mL/min
Total System Volume 0.5708762 L
Calculated Sample Rate 300 sec
Stabilization Drawdown 3 in
Total Volume Pumped 40 L

Low-Flow Sampling Stabilization Summary

	Time	Elapsed	Temp C	pH	SpCond µS/	Turb NTU	DTW ft	RDO mg/L	ORP mV
Stabilization			+/- 0.5	+/- 0.1	+/- 5%	+/- 10		+/- 10%	+/- 10
Last 5	15:52:58	11103.02	25.18	6.19	434.07	12.30	0.84	0.27	62.95
Last 5	15:57:58	11403.02	25.24	6.18	434.66	11.80	0.84	0.27	62.97
Last 5	16:02:58	11703.02	25.46	6.18	435.90	12.30	0.84	0.27	62.53
Last 5	16:08:01	12006.02	25.43	6.18	436.51	12.50	0.84	0.28	62.63
Last 5	16:13:01	12306.02	25.37	6.18	435.69	13.90	0.84	0.28	63.09
Variance 0			0.22	-0.00	1.24			0.00	-0.44
Variance 1			-0.03	-0.00	0.61			0.00	0.11
Variance 2			-0.06	0.00	-0.81			-0.00	0.46

Notes

Not sampled due to turbidity, to return tomorrow and resume low-flow purge.

Grab Samples

Product Name: Low-Flow System

Date: 2016-10-19 10:32:09

Project Information:

Operator Name DC
Company Name Golder
Project Name Plant Scherer
Site Name Scherer
Latitude 0° 0' 0"
Longitude 0° 0' 0"
Sonde SN 417070
Turbidity Make/Model Lamotte

Pump Information:

Pump Model/Type QED ST1102PM
Tubing Type poly
Tubing Diameter 0.17 in
Tubing Length 19.24 ft

Pump placement from TOC 19.24 ft

Well Information:

Well ID SGWC-17
Well diameter 2 in
Well Total Depth 27.6 ft
Screen Length 10 ft
Depth to Water 0.68 ft

Pumping Information:

Final Pumping Rate 100 mL/min
Total System Volume 0.5708762 L
Calculated Sample Rate 300 sec
Stabilization Drawdown 1.5 in
Total Volume Pumped 12 L

Low-Flow Sampling Stabilization Summary

	Time	Elapsed	Temp C	pH	SpCond µS/	Turb NTU	DTW ft	RDO mg/L	ORP mV
Stabilization			+/- 0.5	+/- 0.1	+/- 5%	+/- 10		+/- 10%	+/- 10
Last 5	10:08:01	6002.96	20.53	6.19	476.41	11.30	0.82	0.26	62.28
Last 5	10:13:01	6302.97	20.58	6.19	477.68	11.10	0.82	0.25	62.32
Last 5	10:18:04	6605.96	20.61	6.20	477.97	11.20	0.82	0.26	62.47
Last 5	10:23:04	6905.96	20.67	6.20	478.83	11.60	0.82	0.25	62.36
Last 5	10:28:12	7213.81	20.59	6.20	478.35	--	--	0.25	62.79
Variance 0			0.03	0.00	0.28			0.01	0.15
Variance 1			0.06	0.00	0.87			-0.00	-0.11
Variance 2			-0.08	0.00	-0.48			-0.01	0.43

Notes

Not sampled - accidentally hit finish

Grab Samples

Product Name: Low-Flow System

Date: 2016-10-19 11:01:18

Project Information:

Operator Name DC
Company Name Golder
Project Name Plant Scherer
Site Name Scherer
Latitude 0° 0' 0"
Longitude 0° 0' 0"
Sonde SN 417070
Turbidity Make/Model Lamotte

Pump Information:

Pump Model/Type QED ST1102PM
Tubing Type poly
Tubing Diameter 0.17 in
Tubing Length 19.24 ft

Pump placement from TOC 19.24 ft

Well Information:

Well ID SGWC-17
Well diameter 2 in
Well Total Depth 27.6 ft
Screen Length 10 ft
Depth to Water 0.68 ft

Pumping Information:

Final Pumping Rate 100 mL/min
Total System Volume 0.5708762 L
Calculated Sample Rate 300 sec 1.5
Stabilization Drawdown in
Total Volume Pumped 16 L

Low-Flow Sampling Stabilization Summary

	Time	Elapsed	Temp C	pH	SpCond µS/	Turb NTU	DTW ft	RDO mg/L	ORP mV
Stabilization			+/- 0.5	+/- 0.1	+/- 5%	+/- 10		+/- 10%	+/- 10
Last 5	10:38:32	300.03	21.06	6.20	480.15	11.30	0.82	0.25	64.16
Last 5	10:43:32	600.02	21.33	6.20	480.60	11.10	0.82	0.24	63.72
Last 5	10:48:32	900.02	21.42	6.20	479.71	11.20	0.82	0.25	64.15
Last 5	10:53:32	1200.03	21.55	6.20	479.00	11.60	0.82	0.24	64.66
Last 5	10:58:32	1500.02	21.68	6.20	478.49	11.50	0.82	0.25	65.16
Variance 0			0.09	-0.00	-0.89			0.00	0.43
Variance 1			0.13	0.00	-0.71			-0.01	0.51
Variance 2			0.13	0.00	-0.51			0.02	0.50

Notes

Sampled @ 1058, extra radium, filtered sample collected.

Grab Samples

Product Name: Low-Flow System

Date: 2016-10-19 10:04:52

Project Information:

Operator Name BH
Company Name Golder
Project Name Plant Scherer
Site Name Scherer
Latitude 0° 0' 0"
Longitude 0° 0' 0"
Sonde SN 354627
Turbidity Make/Model LaMotte

Pump Information:

Pump Model/Type QED
Tubing Type polyethylene
Tubing Diameter .25 in
Tubing Length 39.20 ft

Pump placement from TOC 39.20 ft

Well Information:

Well ID SGWC-18
Well diameter 2 in
Well Total Depth 47.60 ft
Screen Length 10 ft
Depth to Water 36.76 ft

Pumping Information:

Final Pumping Rate 100 mL/min
Total System Volume 0.8633871 L
Calculated Sample Rate 300 sec
Stabilization Drawdown 2.4 in
Total Volume Pumped 3 L

Low-Flow Sampling Stabilization Summary

	Time	Elapsed	Temp C	pH	SpCond µS/	Turb NTU	DTW ft	RDO mg/L	ORP mV
Stabilization			+/- 0.5	+/- 0.1	+/- 5%	+/- 10		+/- 10%	+/- 10
Last 5	09:42:29	600.03	21.08	4.70	1033.49	5.07	36.98	3.29	826.01
Last 5	09:47:29	900.03	21.26	4.65	1035.78	2.76	36.98	2.80	838.47
Last 5	09:52:29	1200.02	21.30	4.65	1035.54	2.13	36.98	2.10	848.89
Last 5	09:57:29	1500.02	21.79	4.64	1031.69	0.64	36.98	1.98	860.44
Last 5	10:02:29	1800.02	21.97	4.65	1031.39	0.52	36.98	2.00	867.85
Variance 0			0.05	-0.01	-0.24			-0.69	10.42
Variance 1			0.49	-0.00	-3.85			-0.12	11.55
Variance 2			0.18	0.00	-0.30			0.02	7.41

Notes

Sampled at 1005. FB-3(AP)

Grab Samples

Product Name: Low-Flow System

Date: 2016-10-18 14:02:26

Project Information:

Operator Name BH
Company Name Golder
Project Name Plant Scherer
Site Name Scherer
Latitude 0° 0' 0"
Longitude 0° 0' 0"
Sonde SN 354627
Turbidity Make/Model LaMotte

Pump Information:

Pump Model/Type QED
Tubing Type polyethylene
Tubing Diameter .25 in
Tubing Length 29.0 ft

Pump placement from TOC 29.0 ft

Well Information:

Well ID SGWC-19
Well diameter 2 in
Well Total Depth 37.4 ft
Screen Length 10 ft
Depth to Water 17.14 ft

Pumping Information:

Final Pumping Rate 100 mL/min
Total System Volume 0.7649292 L
Calculated Sample Rate 300 sec
Stabilization Drawdown 7.92 in
Total Volume Pumped 3 L

Low-Flow Sampling Stabilization Summary

	Time	Elapsed	Temp C	pH	SpCond µS/	Turb NTU	DTW ft	RDO mg/L	ORP mV
			+/- 0.5	+/- 0.1	+/- 5%	+/- 10		+/- 10%	+/- 10
Stabilization									
Last 5	13:41:28	600.05	20.73	5.51	481.66	1.77	17.80	2.55	696.55
Last 5	13:46:28	900.05	20.46	5.49	479.41	3.06	17.80	2.00	700.73
Last 5	13:51:28	1200.05	20.51	5.47	479.55	1.50	17.80	1.96	709.73
Last 5	13:56:28	1500.05	20.64	5.46	479.93	2.24	17.80	1.86	717.10
Last 5	14:01:28	1800.05	20.50	5.46	479.39	1.51	17.80	1.87	721.75
Variance 0			0.05	-0.01	0.14			-0.04	8.99
Variance 1			0.13	-0.01	0.38			-0.10	7.38
Variance 2			-0.14	0.00	-0.54			0.01	4.65

Notes

Sampled at 1405

Grab Samples

Product Name: Low-Flow System

Date: 2016-10-18 12:56:32

Project Information:

Operator Name BH
Company Name Golder
Project Name Plant Scherer
Site Name Scherer
Latitude 0° 0' 0"
Longitude 0° 0' 0"
Sonde SN 354627
Turbidity Make/Model LaMotte

Pump Information:

Pump Model/Type QED
Tubing Type polyethylene
Tubing Diameter .25 in
Tubing Length 19.5 ft

Pump placement from TOC 19.5 ft

Well Information:

Well ID SGWC-20
Well diameter 2 in
Well Total Depth 27.9 ft
Screen Length 10 ft
Depth to Water 14.62 ft

Pumping Information:

Final Pumping Rate 100 mL/min
Total System Volume 0.6732283 L
Calculated Sample Rate 300 sec
Stabilization Drawdown 9.6 in
Total Volume Pumped 3 L

Low-Flow Sampling Stabilization Summary

	Time	Elapsed	Temp C	pH	SpCond µS/	Turb NTU	DTW ft	RDO mg/L	ORP mV
			+/- 0.5	+/- 0.1	+/- 5%	+/- 10		+/- 10%	+/- 10
Stabilization									
Last 5	12:35:09	600.02	22.96	4.29	529.55	4.68	15.37	1.59	777.86
Last 5	12:40:09	900.07	22.91	4.27	536.44	3.26	15.40	0.93	768.92
Last 5	12:45:09	1200.04	22.91	4.26	548.26	1.49	15.42	1.33	757.94
Last 5	12:50:09	1500.02	22.96	4.26	555.16	0.98	15.42	0.80	756.78
Last 5	12:55:09	1800.02	23.00	4.26	565.79	0.58	15.42	0.88	753.87
Variance 0			0.00	-0.01	11.82			0.40	-10.99
Variance 1			0.04	-0.00	6.90			-0.53	-1.15
Variance 2			0.04	-0.00	10.63			0.08	-2.91

Notes

Sampled at 1255

Grab Samples

Product Name: Low-Flow System

Date: 2016-10-18 10:23:04

Project Information:

Operator Name BH
Company Name Golder
Project Name Plant Scherer
Site Name Scherer
Latitude 0° 0' 0"
Longitude 0° 0' 0"
Sonde SN 354627
Turbidity Make/Model LaMotte

Pump Information:

Pump Model/Type QED
Tubing Type polyethylene
Tubing Diameter .25 in
Tubing Length 19.39 ft

Pump placement from TOC 19.39 ft

Well Information:

Well ID SGWC-21
Well diameter 2 in
Well Total Depth 27.79 ft
Screen Length 10 ft
Depth to Water 2.05 ft

Pumping Information:

Final Pumping Rate 200 mL/min
Total System Volume 0.6721665 L
Calculated Sample Rate 300 sec
Stabilization Drawdown 1.2 in
Total Volume Pumped 12 L

Low-Flow Sampling Stabilization Summary

	Time	Elapsed	Temp C	pH	SpCond µS/	Turb NTU	DTW ft	RDO mg/L	ORP mV
Stabilization			+/- 0.5	+/- 0.1	+/- 5%	+/- 10		+/- 10%	+/- 10
Last 5	10:01:29	2700.02	20.54	5.89	403.62	10.16	2.15	0.07	537.92
Last 5	10:06:29	3000.02	20.55	5.89	403.14	6.78	2.15	0.06	537.51
Last 5	10:11:29	3300.02	20.59	5.89	403.04	6.25	2.15	0.05	539.10
Last 5	10:16:29	3599.86	20.64	5.90	403.16	5.76	2.15	0.05	539.80
Last 5	10:21:29	3899.87	20.68	5.90	403.15	4.71	2.15	0.04	538.88
Variance 0			0.04	0.00	-0.10			-0.01	1.59
Variance 1			0.04	0.00	0.12			-0.01	0.70
Variance 2			0.05	0.00	-0.01			-0.01	-0.92

Notes

Sampled at 1025. FD-3(AP)

Grab Samples

Product Name: Low-Flow System

Date: 2016-10-18 15:53:00

Project Information:

Operator Name AME
Company Name Golder
Project Name Plant Scherer
Site Name Scherer
Latitude 0° 0' 0"
Longitude 0° 0' 0"
Sonde SN 354698
Turbidity Make/Model Lamotte

Pump Information:

Pump Model/Type Dedicated Bladder pump
Tubing Type PE
Tubing Diameter 0.25 in
Tubing Length 44.20 ft

Pump placement from TOC 47.60 ft

Well Information:

Well ID SGWC-22
Well diameter 2 in
Well Total Depth 52.6 ft
Screen Length 10 ft
Depth to Water 27.71 ft

Pumping Information:

Final Pumping Rate 0 mL/min
Total System Volume 0.9116508 L
Calculated Sample Rate 300 sec
Stabilization Drawdown 0 in
Total Volume Pumped 0 L

Low-Flow Sampling Stabilization Summary

	Time	Elapsed	Temp C	pH	SpCond µS/	Turb NTU	DTW ft	RDO mg/L	ORP mV
Stabilization			+/- 0.5	+/- 0.1	+/- 5%	+/- 10		+/- 10%	+/- 10
Last 5	15:30:49	1500.02	24.05	5.69	273.11	7.50	28.40	0.25	159.82
Last 5	15:35:49	1800.02	23.91	5.69	274.75	--	--	0.25	158.25
Last 5	15:40:49	2100.03	23.95	5.69	273.97	--	--	0.33	158.05
Last 5	15:45:49	2400.02	22.36	5.70	270.97	--	--	0.38	161.88
Last 5	15:50:49	2699.85	24.23	5.69	274.74	--	--	0.42	158.39
Variance 0			0.04	0.00	-0.79			0.07	-0.20
Variance 1			-1.59	0.01	-3.00			0.05	3.83
Variance 2			1.87	-0.01	3.77			0.04	-3.49

Notes

Pump died. Stopped low-flow.

Grab Samples

Product Name: Low-Flow System

Date: 2016-10-18 16:44:51

Project Information:

Operator Name AME
Company Name Golder
Project Name Plant Scherer
Site Name Scherer
Latitude 0° 0' 0"
Longitude 0° 0' 0"
Sonde SN 354698
Turbidity Make/Model Lamotte

Pump Information:

Pump Model/Type Dedicated Bladder pump
Tubing Type PE
Tubing Diameter 0.25 in
Tubing Length 44.20 ft

Pump placement from TOC 47.6 ft

Well Information:

Well ID SGWC-22
Well diameter 2 in
Well Total Depth 52.6 ft
Screen Length 10 ft
Depth to Water 27.72 ft

Pumping Information:

Final Pumping Rate 120 mL/min
Total System Volume 0.9116508 L
Calculated Sample Rate 300 sec
Stabilization Drawdown 8.88 in
Total Volume Pumped 12.6 L

Low-Flow Sampling Stabilization Summary

	Time	Elapsed	Temp C	pH	SpCond µS/	Turb NTU	DTW ft	RDO mg/L	ORP mV
Stabilization			+/- 0.5	+/- 0.1	+/- 5%	+/- 10		+/- 10%	+/- 10
Last 5	16:21:45	1500.03	22.49	5.71	272.60	5.55	28.45	0.39	163.43
Last 5	16:26:45	1800.02	22.82	5.71	272.81	4.55	28.45	0.46	160.50
Last 5	16:31:45	2100.02	22.70	5.71	271.71	4.70	28.50	0.40	150.44
Last 5	16:36:45	2400.02	22.97	5.71	273.38	4.70	28.50	0.38	142.19
Last 5	16:41:45	2700.02	22.97	5.71	272.59	4.59	28.50	0.39	132.38
Variance 0			-0.12	0.00	-1.09			-0.06	-10.06
Variance 1			0.27	-0.00	1.66			-0.02	-8.25
Variance 2			0.00	0.00	-0.79			0.01	-9.82

Notes

SGWC-22 sampled at 1641; 4.59 NTU.

Grab Samples

Product Name: Low-Flow System

Date: 2016-10-18 13:26:47

Project Information:

Operator Name AME
Company Name Golder
Project Name Plant Scherer
Site Name Scherer
Latitude 0° 0' 0"
Longitude 0° 0' 0"
Sonde SN 354698
Turbidity Make/Model Lamotte

Pump Information:

Pump Model/Type Dedicated Bladder pump
Tubing Type PE
Tubing Diameter 0.25 in
Tubing Length 44.25 ft

Pump placement from TOC 47.65 ft

Well Information:

Well ID SGWC-23
Well diameter 2 in
Well Total Depth 52.6 ft
Screen Length 10 ft
Depth to Water 32.71 ft

Pumping Information:

Final Pumping Rate 150 mL/min
Total System Volume 0.9121333 L
Calculated Sample Rate 300 sec
Stabilization Drawdown 0.96 in
Total Volume Pumped 10 L

Low-Flow Sampling Stabilization Summary

	Time	Elapsed	Temp C	pH	SpCond µS/	Turb NTU	DTW ft	RDO mg/L	ORP mV
Stabilization			+/- 0.5	+/- 0.1	+/- 5%	+/- 10		+/- 10%	+/- 10
Last 5	13:02:20	2100.66	23.81	5.91	344.50	0.19	32.79	1.22	171.54
Last 5	13:07:20	2400.72	23.52	5.90	349.94	0.15	32.79	1.30	173.19
Last 5	13:12:20	2700.69	23.18	5.90	350.28	0.31	32.79	1.35	158.20
Last 5	13:17:20	3000.66	22.79	5.89	353.02	0.16	32.79	1.45	153.08
Last 5	13:22:20	3300.66	22.40	5.89	353.84	0.09	32.79	1.49	150.32
Variance 0			-0.35	-0.00	0.34			0.05	-14.99
Variance 1			-0.39	-0.01	2.73			0.10	-5.12
Variance 2			-0.39	-0.00	0.83			0.04	-2.76

Notes

SGWC-23 sampled at 1323; 0.09 NTU. Extra radium bottle. FB-2(AP).

Grab Samples

Product Name: Low-Flow System

Date: 2016-10-13 15:30:02

Project Information:

Operator Name AME
Company Name Golder
Project Name Plant Scherer
Site Name Scherer
Latitude 0° 0' 0"
Longitude 0° 0' 0"
Sonde SN 354698
Turbidity Make/Model Lamotte

Pump Information:

Pump Model/Type QED P5000S
Tubing Type PE
Tubing Diameter 0.25 in
Tubing Length 33 ft

Pump placement from TOC 36 ft

Well Information:

Well ID SGWA-24
Well diameter 2 in
Well Total Depth 41.6 ft
Screen Length 10 ft
Depth to Water 16.20 ft

Pumping Information:

Final Pumping Rate 100 mL/min
Total System Volume 0.8035402 L
Calculated Sample Rate 300 sec
Stabilization Drawdown 0 in
Total Volume Pumped 37.6 L

Low-Flow Sampling Stabilization Summary

	Time	Elapsed	Temp C	pH	SpCond µS/	Turb NTU	DTW ft	RDO mg/L	ORP mV
Stabilization			+/- 0.5	+/- 0.1	+/- 5%	+/- 10		+/- 10%	+/- 10
Last 5	15:06:34	15322.38	23.30	6.34	134.07	4.35	16.50	1.67	312.39
Last 5	15:11:34	15622.38	23.20	6.33	134.37	4.22	16.50	1.46	321.71
Last 5	15:16:34	15922.37	23.09	6.34	133.51	4.23	16.50	1.43	318.10
Last 5	15:21:34	16222.38	23.14	6.34	133.88	4.27	16.50	1.47	317.90
Last 5	15:26:34	16522.38	23.08	6.34	133.19	4.37	16.50	1.49	318.96
Variance 0			-0.11	0.01	-0.86			-0.03	-3.61
Variance 1			0.05	-0.00	0.37			0.04	-0.20
Variance 2			-0.06	0.00	-0.69			0.03	1.06

Notes

SGWA-24 sampled at 15:26; 4.37 NTU.

Grab Samples

Product Name: Low-Flow System

Date: 2016-10-14 15:58:20

Project Information:

Operator Name AME
Company Name Golder
Project Name Plant Scherer
Site Name Scherer
Latitude 0° 0' 0"
Longitude 0° 0' 0"
Sonde SN 354698
Turbidity Make/Model Lamotte

Pump Information:

Pump Model/Type Dedicated Bladder pump
Tubing Type PE
Tubing Diameter 0.25 in
Tubing Length 39.75 ft

Pump placement from TOC 43.15 ft

Well Information:

Well ID SGWA-25
Well diameter 2 in
Well Total Depth 48.0 ft
Screen Length 10 ft
Depth to Water 30.35 ft

Pumping Information:

Final Pumping Rate 120 mL/min
Total System Volume 0.868696 L
Calculated Sample Rate 300 sec
Stabilization Drawdown 1.8 in
Total Volume Pumped 18.4 L

Low-Flow Sampling Stabilization Summary

	Time	Elapsed	Temp C	pH	SpCond µS/	Turb NTU	DTW ft	RDO mg/L	ORP mV
			+/- 0.5	+/- 0.1	+/- 5%	+/- 10		+/- 10%	+/- 10
Stabilization									
Last 5	15:27:24	2410.02	19.13	6.15	132.42	4.54	30.70	0.42	109.07
Last 5	15:32:24	2710.02	20.55	6.14	133.40	5.05	30.50	0.47	107.50
Last 5	15:37:24	3010.02	20.82	6.14	134.17	3.57	30.50	0.33	111.84
Last 5	15:42:24	3310.81	20.98	6.14	133.94	2.91	30.50	0.33	108.23
Last 5	15:47:24	3610.80	20.97	6.14	134.18	2.74	30.50	0.32	107.75
Variance 0			0.28	0.00	0.77			-0.14	4.34
Variance 1			0.16	-0.00	-0.23			0.00	-3.61
Variance 2			-0.01	0.00	0.24			-0.01	-0.48

Notes

SGWA-25 sampled at 1548; 2.74 NTU.

Grab Samples



APPENDIX A

ANALYTICAL RESULTS & FIELD DATA FORMS
(DECEMBER 2016)

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

TestAmerica Laboratories, Inc.

TestAmerica Pensacola

3355 McLemore Drive

Pensacola, FL 32514

Tel: (850)474-1001

TestAmerica Job ID: 400-131190-1

TestAmerica Sample Delivery Group: Ash Pond

Client Project/Site: CCR Plant Scherer

For:

Southern Company

241 Ralph McGill Blvd SE

B10185

Atlanta, Georgia 30308

Attn: Joju Abraham



Authorized for release by:

12/31/2016 3:37:16 PM

Cheyenne Whitmire, Project Manager II

(850)471-6222

cheyenne.whitmire@testamericainc.com

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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.

1

2

3

4

5

6

7

8

9

10

11

12

13

14



Table of Contents

Cover Page	1
Table of Contents	2
Case Narrative	3
Detection Summary	4
Method Summary	13
Sample Summary	14
Client Sample Results	15
Definitions	44
Chronicle	45
QC Association	54
QC Sample Results	61
Chain of Custody	74
Receipt Checklists	78
Certification Summary	79

Case Narrative

Client: Southern Company
Project/Site: CCR Plant Scherer

TestAmerica Job ID: 400-131190-1
SDG: Ash Pond

Job ID: 400-131190-1

Laboratory: TestAmerica Pensacola

Narrative

Job Narrative 400-131190-1

HPLC/IC

Method(s) 300.0: The laboratory control sample (LCS) for analytical batch 334961 recovered outside control limits for the following analytes: Fluoride. These analytes were biased high in the LCS and were not detected above the RL in the associated samples; therefore, the data have been reported.

Method(s) 300.0: The continuing calibration verification (CCV) associated with batch 334961 recovered above the upper control limit for Fluoride. The samples associated with this CCV were non-detects above the RL for the affected analytes; therefore, the data have been reported. The following sample is impacted: (CCV 400-334961/26).

Method(s) 300.0: The following samples were diluted to bring the concentration of target analytes within the calibration range: SGWC-8 (400-131190-10), SGWC-13 (400-131190-17), SGWC-23 (400-131190-18), SGWC-17 (400-131190-20), SGWC-14 (400-131190-22), SGWC-22 (400-131190-23), SGWC-21 (400-131190-25), SGWC-15 (400-131190-26), SGWC-9 (400-131190-28) and SGWC-18 (400-131190-29). Elevated reporting limits (RLs) are provided.

Metals

Method(s) 6020: The native sample, post-digestion spike (PDS), matrix spike, and matrix spike duplicate (MS/MSD) associated with preparation batch 334668 and analytical batch 334816 were performed at the same dilution. Due to the additional level of analyte present in the spiked samples, the concentration of Calcium in the PDS/MS/MSD was above the instrument calibration range. The data have been reported and qualified.

Method(s) 6020: The following samples were diluted to bring the concentration of target analytes within the calibration range: SGWC-21 (400-131190-25), SGWC-15 (400-131190-26), SGWC-9 (400-131190-28) and SGWC-18 (400-131190-29). Elevated reporting limits (RLs) are provided.

Method(s) 7470A: The method blank for prep batch 335148 contained Mercury above the method detection limit. This target analyte concentration was less than the reporting limit (RL); therefore, re-analysis of samples was not performed.

Method(s) 7470A: The method blank for prep batch 335134 contained Mercury above the method detection limit. This target analyte concentration was less than the reporting limit (RL); therefore, re-analysis of samples was not performed.

Method(s) 7470A: The method blank for prep batch 335122 contained Mercury above the method detection limit. This target analyte concentration was less than the reporting limit (RL); therefore, re-analysis of samples was not performed.

Detection Summary

Client: Southern Company
Project/Site: CCR Plant Scherer

TestAmerica Job ID: 400-131190-1
SDG: Ash Pond

Client Sample ID: SGWA-24

Lab Sample ID: 400-131190-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chloride	1.9		1.0	0.89	mg/L	1		300.0	Total/NA
Barium	0.023		0.0025	0.00049	mg/L	5		6020	Total Recoverable
Calcium	12		0.25	0.13	mg/L	5		6020	Total Recoverable
Chromium	0.0027		0.0025	0.0011	mg/L	5		6020	Total Recoverable
Mercury	0.00012	J B	0.00020	0.000070	mg/L	1		7470A	Total/NA
Total Dissolved Solids	110		5.0	3.4	mg/L	1		SM 2540C	Total/NA

Client Sample ID: FD-1 (AP)

Lab Sample ID: 400-131190-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chloride	1.9		1.0	0.89	mg/L	1		300.0	Total/NA
Barium	0.023		0.0025	0.00049	mg/L	5		6020	Total Recoverable
Calcium	12		0.25	0.13	mg/L	5		6020	Total Recoverable
Chromium	0.0028		0.0025	0.0011	mg/L	5		6020	Total Recoverable
Mercury	0.00011	J B	0.00020	0.000070	mg/L	1		7470A	Total/NA
Total Dissolved Solids	110		5.0	3.4	mg/L	1		SM 2540C	Total/NA

Client Sample ID: SGWA-5

Lab Sample ID: 400-131190-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chloride	1.8		1.0	0.89	mg/L	1		300.0	Total/NA
Barium	0.011		0.0025	0.00049	mg/L	5		6020	Total Recoverable
Calcium	1.4		0.25	0.13	mg/L	5		6020	Total Recoverable
Mercury	0.00012	J B	0.00020	0.000070	mg/L	1		7470A	Total/NA
Total Dissolved Solids	72		5.0	3.4	mg/L	1		SM 2540C	Total/NA

Client Sample ID: FD-2 (AP)

Lab Sample ID: 400-131190-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chloride	1.8		1.0	0.89	mg/L	1		300.0	Total/NA
Barium	0.010		0.0025	0.00049	mg/L	5		6020	Total Recoverable
Calcium	1.4		0.25	0.13	mg/L	5		6020	Total Recoverable
Mercury	0.00012	J B	0.00020	0.000070	mg/L	1		7470A	Total/NA
Total Dissolved Solids	60		5.0	3.4	mg/L	1		SM 2540C	Total/NA

Client Sample ID: SGWA-1

Lab Sample ID: 400-131190-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chloride	2.2		1.0	0.89	mg/L	1		300.0	Total/NA
Sulfate	3.2		1.0	0.70	mg/L	1		300.0	Total/NA
Barium	0.053		0.0025	0.00049	mg/L	5		6020	Total Recoverable

This Detection Summary does not include radiochemical test results.

TestAmerica Pensacola

Detection Summary

Client: Southern Company
Project/Site: CCR Plant Scherer

TestAmerica Job ID: 400-131190-1
SDG: Ash Pond

Client Sample ID: SGWA-1 (Continued)

Lab Sample ID: 400-131190-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Calcium	2.1		0.25	0.13	mg/L		5	6020	Total Recoverable
Cobalt	0.016		0.0025	0.00040	mg/L		5	6020	Total Recoverable
Mercury	0.00012	J B	0.00020	0.000070	mg/L		1	7470A	Total/NA
Total Dissolved Solids	54		5.0	3.4	mg/L		1	SM 2540C	Total/NA

Client Sample ID: SGWC-7

Lab Sample ID: 400-131190-6

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chloride	5.9		1.0	0.89	mg/L		1	300.0	Total/NA
Fluoride	0.26		0.20	0.082	mg/L		1	300.0	Total/NA
Sulfate	18		1.0	0.70	mg/L		1	300.0	Total/NA
Barium	0.31		0.0025	0.00049	mg/L		5	6020	Total Recoverable
Boron	0.030	J	0.050	0.021	mg/L		5	6020	Total Recoverable
Calcium	23		0.25	0.13	mg/L		5	6020	Total Recoverable
Cobalt	0.011		0.0025	0.00040	mg/L		5	6020	Total Recoverable
Lithium	0.0043	J	0.0050	0.0032	mg/L		5	6020	Total Recoverable
Molybdenum	0.0021	J	0.015	0.00085	mg/L		5	6020	Total Recoverable
Mercury	0.00011	J B	0.00020	0.000070	mg/L		1	7470A	Total/NA
Total Dissolved Solids	250		5.0	3.4	mg/L		1	SM 2540C	Total/NA

Client Sample ID: SGWA-2

Lab Sample ID: 400-131190-7

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chloride	1.5		1.0	0.89	mg/L		1	300.0	Total/NA
Barium	0.042		0.0025	0.00049	mg/L		5	6020	Total Recoverable
Calcium	10		0.25	0.13	mg/L		5	6020	Total Recoverable
Chromium	0.0043		0.0025	0.0011	mg/L		5	6020	Total Recoverable
Mercury	0.00011	J B	0.00020	0.000070	mg/L		1	7470A	Total/NA
Total Dissolved Solids	110		5.0	3.4	mg/L		1	SM 2540C	Total/NA

Client Sample ID: SGWA-25

Lab Sample ID: 400-131190-8

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chloride	1.7		1.0	0.89	mg/L		1	300.0	Total/NA
Arsenic	0.00075	J	0.0013	0.00046	mg/L		5	6020	Total Recoverable
Barium	0.020		0.0025	0.00049	mg/L		5	6020	Total Recoverable
Calcium	11		0.25	0.13	mg/L		5	6020	Total Recoverable
Cobalt	0.016		0.0025	0.00040	mg/L		5	6020	Total Recoverable
Mercury	0.00011	J B	0.00020	0.000070	mg/L		1	7470A	Total/NA

This Detection Summary does not include radiochemical test results.

TestAmerica Pensacola

Detection Summary

Client: Southern Company
Project/Site: CCR Plant Scherer

TestAmerica Job ID: 400-131190-1
SDG: Ash Pond

Client Sample ID: SGWA-25 (Continued)

Lab Sample ID: 400-131190-8

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Total Dissolved Solids	110		5.0	3.4	mg/L	1		SM 2540C	Total/NA

Client Sample ID: SGWA-3

Lab Sample ID: 400-131190-9

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chloride	3.0		1.0	0.89	mg/L	1		300.0	Total/NA
Sulfate	1.3		1.0	0.70	mg/L	1		300.0	Total/NA
Barium	0.033		0.0025	0.00049	mg/L	5		6020	Total Recoverable
Calcium	4.8		0.25	0.13	mg/L	5		6020	Total Recoverable
Chromium	0.0063		0.0025	0.0011	mg/L	5		6020	Total Recoverable
Mercury	0.000087	J B	0.00020	0.000070	mg/L	1		7470A	Total/NA
Total Dissolved Solids	70		5.0	3.4	mg/L	1		SM 2540C	Total/NA

Client Sample ID: SGWC-8

Lab Sample ID: 400-131190-10

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chloride	12		1.0	0.89	mg/L	1		300.0	Total/NA
Fluoride	0.58		0.20	0.082	mg/L	1		300.0	Total/NA
Sulfate	72		5.0	3.5	mg/L	5		300.0	Total/NA
Barium	0.16		0.0025	0.00049	mg/L	5		6020	Total Recoverable
Boron	0.054		0.050	0.021	mg/L	5		6020	Total Recoverable
Calcium	45		0.25	0.13	mg/L	5		6020	Total Recoverable
Mercury	0.000076	J B	0.00020	0.000070	mg/L	1		7470A	Total/NA
Total Dissolved Solids	420		5.0	3.4	mg/L	1		SM 2540C	Total/NA

Client Sample ID: SGWC-11

Lab Sample ID: 400-131190-11

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chloride	7.9		1.0	0.89	mg/L	1		300.0	Total/NA
Sulfate	1.9		1.0	0.70	mg/L	1		300.0	Total/NA
Arsenic	0.00072	J	0.0013	0.00046	mg/L	5		6020	Total Recoverable
Barium	0.035		0.0025	0.00049	mg/L	5		6020	Total Recoverable
Boron	0.27		0.050	0.021	mg/L	5		6020	Total Recoverable
Calcium	1.9		0.25	0.13	mg/L	5		6020	Total Recoverable
Cobalt	0.029		0.0025	0.00040	mg/L	5		6020	Total Recoverable
Mercury	0.00010	J B	0.00020	0.000070	mg/L	1		7470A	Total/NA
Total Dissolved Solids	70		5.0	3.4	mg/L	1		SM 2540C	Total/NA

Client Sample ID: SGWC-12

Lab Sample ID: 400-131190-12

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chloride	8.9		1.0	0.89	mg/L	1		300.0	Total/NA

This Detection Summary does not include radiochemical test results.

TestAmerica Pensacola

Detection Summary

Client: Southern Company
Project/Site: CCR Plant Scherer

TestAmerica Job ID: 400-131190-1
SDG: Ash Pond

Client Sample ID: SGWC-12 (Continued)

Lab Sample ID: 400-131190-12

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Fluoride	0.11	J	0.20	0.082	mg/L	1		300.0	Total/NA
Sulfate	28		1.0	0.70	mg/L	1		300.0	Total/NA
Barium	0.032		0.0025	0.00049	mg/L	5		6020	Total Recoverable
Calcium	21		0.25	0.13	mg/L	5		6020	Total Recoverable
Cobalt	0.0036		0.0025	0.00040	mg/L	5		6020	Total Recoverable
Mercury	0.000093	J B	0.00020	0.000070	mg/L	1		7470A	Total/NA
Total Dissolved Solids	220		5.0	3.4	mg/L	1		SM 2540C	Total/NA

Client Sample ID: FD-3 (AP)

Lab Sample ID: 400-131190-13

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chloride	8.9		1.0	0.89	mg/L	1		300.0	Total/NA
Fluoride	0.11	J	0.20	0.082	mg/L	1		300.0	Total/NA
Sulfate	29		1.0	0.70	mg/L	1		300.0	Total/NA
Barium	0.033		0.0025	0.00049	mg/L	5		6020	Total Recoverable
Calcium	21		0.25	0.13	mg/L	5		6020	Total Recoverable
Cobalt	0.0034		0.0025	0.00040	mg/L	5		6020	Total Recoverable
Mercury	0.000087	J B	0.00020	0.000070	mg/L	1		7470A	Total/NA
Total Dissolved Solids	200		5.0	3.4	mg/L	1		SM 2540C	Total/NA

Client Sample ID: SGWC-10

Lab Sample ID: 400-131190-14

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chloride	8.9		1.0	0.89	mg/L	1		300.0	Total/NA
Sulfate	11		1.0	0.70	mg/L	1		300.0	Total/NA
Barium	0.030		0.0025	0.00049	mg/L	5		6020	Total Recoverable
Calcium	4.3		0.25	0.13	mg/L	5		6020	Total Recoverable
Cobalt	0.040		0.0025	0.00040	mg/L	5		6020	Total Recoverable
Mercury	0.00013	J B	0.00020	0.000070	mg/L	1		7470A	Total/NA
Total Dissolved Solids	40		5.0	3.4	mg/L	1		SM 2540C	Total/NA

Client Sample ID: SGWA-4

Lab Sample ID: 400-131190-15

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chloride	1.3		1.0	0.89	mg/L	1		300.0	Total/NA
Fluoride	0.091	J	0.20	0.082	mg/L	1		300.0	Total/NA
Sulfate	1.4		1.0	0.70	mg/L	1		300.0	Total/NA
Barium	0.047		0.0025	0.00049	mg/L	5		6020	Total Recoverable
Calcium	15		0.25	0.13	mg/L	5		6020	Total Recoverable
Chromium	0.0028		0.0025	0.0011	mg/L	5		6020	Total Recoverable
Molybdenum	0.00095	J	0.015	0.00085	mg/L	5		6020	Total Recoverable

This Detection Summary does not include radiochemical test results.

TestAmerica Pensacola

Detection Summary

Client: Southern Company
Project/Site: CCR Plant Scherer

TestAmerica Job ID: 400-131190-1
SDG: Ash Pond

Client Sample ID: SGWA-4 (Continued)

Lab Sample ID: 400-131190-15

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Mercury	0.00011	J B	0.00020	0.000070	mg/L	1		7470A	Total/NA
Total Dissolved Solids	98		5.0	3.4	mg/L	1		SM 2540C	Total/NA

Client Sample ID: SGWC-6

Lab Sample ID: 400-131190-16

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chloride	2.3		1.0	0.89	mg/L	1		300.0	Total/NA
Fluoride	0.14	J	0.20	0.082	mg/L	1		300.0	Total/NA
Barium	0.11		0.0025	0.00049	mg/L	5		6020	Total Recoverable
Calcium	8.2		0.25	0.13	mg/L	5		6020	Total Recoverable
Cobalt	0.0012	J	0.0025	0.00040	mg/L	5		6020	Total Recoverable
Mercury	0.00011	J B	0.00020	0.000070	mg/L	1		7470A	Total/NA
Total Dissolved Solids	90		5.0	3.4	mg/L	1		SM 2540C	Total/NA

Client Sample ID: SGWC-13

Lab Sample ID: 400-131190-17

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chloride	5.6		1.0	0.89	mg/L	1		300.0	Total/NA
Sulfate	76		5.0	3.5	mg/L	5		300.0	Total/NA
Barium	0.025		0.0025	0.00049	mg/L	5		6020	Total Recoverable
Boron	0.50		0.050	0.021	mg/L	5		6020	Total Recoverable
Calcium	14		0.25	0.13	mg/L	5		6020	Total Recoverable
Cobalt	0.0079		0.0025	0.00040	mg/L	5		6020	Total Recoverable
Mercury	0.00011	J B	0.00020	0.000070	mg/L	1		7470A	Total/NA
Total Dissolved Solids	110		5.0	3.4	mg/L	1		SM 2540C	Total/NA

Client Sample ID: SGWC-23

Lab Sample ID: 400-131190-18

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chloride	9.7		1.0	0.89	mg/L	1		300.0	Total/NA
Sulfate	140		5.0	3.5	mg/L	5		300.0	Total/NA
Barium	0.090		0.0025	0.00049	mg/L	5		6020	Total Recoverable
Boron	0.60		0.050	0.021	mg/L	5		6020	Total Recoverable
Calcium	30		0.25	0.13	mg/L	5		6020	Total Recoverable
Lithium	0.0043	J	0.0050	0.0032	mg/L	5		6020	Total Recoverable
Mercury	0.00011	J B	0.00020	0.000070	mg/L	1		7470A	Total/NA
Total Dissolved Solids	300		5.0	3.4	mg/L	1		SM 2540C	Total/NA

Client Sample ID: FB-1 (AP)

Lab Sample ID: 400-131190-19

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Mercury	0.000099	J B	0.00020	0.000070	mg/L	1		7470A	Total/NA

This Detection Summary does not include radiochemical test results.

TestAmerica Pensacola

Detection Summary

Client: Southern Company
Project/Site: CCR Plant Scherer

TestAmerica Job ID: 400-131190-1
SDG: Ash Pond

Client Sample ID: FB-1 (AP) (Continued)

Lab Sample ID: 400-131190-19

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Total Dissolved Solids	10		5.0	3.4	mg/L	1		SM 2540C	Total/NA

Client Sample ID: SGWC-17

Lab Sample ID: 400-131190-20

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chloride	8.4		1.0	0.89	mg/L	1		300.0	Total/NA
Sulfate	160		5.0	3.5	mg/L	5		300.0	Total/NA
Barium	0.018		0.0025	0.00049	mg/L	5		6020	Total Recoverable
Boron	0.40		0.050	0.021	mg/L	5		6020	Total Recoverable
Calcium	39		0.25	0.13	mg/L	5		6020	Total Recoverable
Chromium	0.0027		0.0025	0.0011	mg/L	5		6020	Total Recoverable
Cobalt	0.00056	J	0.0025	0.00040	mg/L	5		6020	Total Recoverable
Mercury	0.00011	J B	0.00020	0.000070	mg/L	1		7470A	Total/NA
Total Dissolved Solids	370		5.0	3.4	mg/L	1		SM 2540C	Total/NA

Client Sample ID: FB-2 (AP)

Lab Sample ID: 400-131190-21

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Barium	0.0018	J	0.0025	0.00049	mg/L	5		6020	Total Recoverable
Mercury	0.00011	J B	0.00020	0.000070	mg/L	1		7470A	Total/NA

Client Sample ID: SGWC-14

Lab Sample ID: 400-131190-22

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chloride	11		1.0	0.89	mg/L	1		300.0	Total/NA
Sulfate	200		5.0	3.5	mg/L	5		300.0	Total/NA
Barium	0.063		0.0025	0.00049	mg/L	5		6020	Total Recoverable
Boron	1.5		0.050	0.021	mg/L	5		6020	Total Recoverable
Calcium	38		0.25	0.13	mg/L	5		6020	Total Recoverable
Chromium	0.0012	J	0.0025	0.0011	mg/L	5		6020	Total Recoverable
Cobalt	0.0043		0.0025	0.00040	mg/L	5		6020	Total Recoverable
Mercury	0.00012	J B	0.00020	0.000070	mg/L	1		7470A	Total/NA
Total Dissolved Solids	340		5.0	3.4	mg/L	1		SM 2540C	Total/NA

Client Sample ID: SGWC-22

Lab Sample ID: 400-131190-23

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chloride	10		1.0	0.89	mg/L	1		300.0	Total/NA
Sulfate	85		5.0	3.5	mg/L	5		300.0	Total/NA
Barium	0.090		0.0025	0.00049	mg/L	5		6020	Total Recoverable
Boron	0.36		0.050	0.021	mg/L	5		6020	Total Recoverable

This Detection Summary does not include radiochemical test results.

TestAmerica Pensacola

Detection Summary

Client: Southern Company
Project/Site: CCR Plant Scherer

TestAmerica Job ID: 400-131190-1
SDG: Ash Pond

Client Sample ID: SGWC-22 (Continued)

Lab Sample ID: 400-131190-23

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Calcium	23		0.25	0.13	mg/L	5		6020	Total
Cobalt	0.0034		0.0025	0.00040	mg/L	5		6020	Total Recoverable
Mercury	0.000099	J B	0.00020	0.000070	mg/L	1		7470A	Total/NA
Total Dissolved Solids	230		5.0	3.4	mg/L	1		SM 2540C	Total/NA

Client Sample ID: FB-3 (AP)

Lab Sample ID: 400-131190-24

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Mercury	0.00012	J B	0.00020	0.000070	mg/L	1		7470A	Total/NA

Client Sample ID: SGWC-21

Lab Sample ID: 400-131190-25

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chloride	7.7		1.0	0.89	mg/L	1		300.0	Total/NA
Sulfate	80		5.0	3.5	mg/L	5		300.0	Total/NA
Barium	0.096		0.0025	0.00049	mg/L	5		6020	Total Recoverable
Calcium	29		0.25	0.13	mg/L	5		6020	Total Recoverable
Boron - DL	1.3		0.50	0.21	mg/L	50		6020	Total Recoverable
Mercury	0.00010	J B	0.00020	0.000070	mg/L	1		7470A	Total/NA
Total Dissolved Solids	310		5.0	3.4	mg/L	1		SM 2540C	Total/NA

Client Sample ID: SGWC-15

Lab Sample ID: 400-131190-26

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chloride	9.8		1.0	0.89	mg/L	1		300.0	Total/NA
Fluoride	0.13	J	0.20	0.082	mg/L	1		300.0	Total/NA
Sulfate	200		5.0	3.5	mg/L	5		300.0	Total/NA
Arsenic	0.00079	J	0.0013	0.00046	mg/L	5		6020	Total Recoverable
Barium	0.042		0.0025	0.00049	mg/L	5		6020	Total Recoverable
Calcium	15		0.25	0.13	mg/L	5		6020	Total Recoverable
Chromium	0.032		0.0025	0.0011	mg/L	5		6020	Total Recoverable
Cobalt	0.26		0.0025	0.00040	mg/L	5		6020	Total Recoverable
Selenium	0.00070	J	0.0013	0.00024	mg/L	5		6020	Total Recoverable
Boron - DL	1.5		0.50	0.21	mg/L	50		6020	Total Recoverable
Mercury	0.00017	J B	0.00020	0.000070	mg/L	1		7470A	Total/NA
Total Dissolved Solids	270		5.0	3.4	mg/L	1		SM 2540C	Total/NA

Client Sample ID: SGWC-16

Lab Sample ID: 400-131190-27

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chloride	8.0		1.0	0.89	mg/L	1		300.0	Total/NA

This Detection Summary does not include radiochemical test results.

TestAmerica Pensacola

Detection Summary

Client: Southern Company
Project/Site: CCR Plant Scherer

TestAmerica Job ID: 400-131190-1
SDG: Ash Pond

Client Sample ID: SGWC-16 (Continued)

Lab Sample ID: 400-131190-27

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Sulfate	17		1.0	0.70	mg/L	1		300.0	Total/NA
Barium	0.017		0.0025	0.00049	mg/L	5		6020	Total Recoverable
Boron	0.56		0.050	0.021	mg/L	5		6020	Total Recoverable
Calcium	0.73		0.25	0.13	mg/L	5		6020	Total Recoverable
Chromium	0.0079		0.0025	0.0011	mg/L	5		6020	Total Recoverable
Cobalt	0.0030		0.0025	0.00040	mg/L	5		6020	Total Recoverable
Mercury	0.000076	J B	0.00020	0.000070	mg/L	1		7470A	Total/NA
Total Dissolved Solids	64		5.0	3.4	mg/L	1		SM 2540C	Total/NA

Client Sample ID: SGWC-9

Lab Sample ID: 400-131190-28

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chloride	11		1.0	0.89	mg/L	1		300.0	Total/NA
Sulfate	280		10	7.0	mg/L	10		300.0	Total/NA
Arsenic	0.00079	J	0.0013	0.00046	mg/L	5		6020	Total Recoverable
Barium	0.048		0.0025	0.00049	mg/L	5		6020	Total Recoverable
Calcium	47		0.25	0.13	mg/L	5		6020	Total Recoverable
Cobalt	0.014		0.0025	0.00040	mg/L	5		6020	Total Recoverable
Molybdenum	0.0010	J	0.015	0.00085	mg/L	5		6020	Total Recoverable
Boron - DL	1.6		0.50	0.21	mg/L	50		6020	Total Recoverable
Mercury	0.00010	J B	0.00020	0.000070	mg/L	1		7470A	Total/NA
Total Dissolved Solids	510		5.0	3.4	mg/L	1		SM 2540C	Total/NA

Client Sample ID: SGWC-18

Lab Sample ID: 400-131190-29

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chloride	5.6		1.0	0.89	mg/L	1		300.0	Total/NA
Sulfate	510		20	14	mg/L	20		300.0	Total/NA
Arsenic	0.0012	J	0.0013	0.00046	mg/L	5		6020	Total Recoverable
Barium	0.015		0.0025	0.00049	mg/L	5		6020	Total Recoverable
Calcium	50		0.25	0.13	mg/L	5		6020	Total Recoverable
Chromium	0.0063		0.0025	0.0011	mg/L	5		6020	Total Recoverable
Cobalt	0.11		0.0025	0.00040	mg/L	5		6020	Total Recoverable
Selenium	0.0060		0.0013	0.00024	mg/L	5		6020	Total Recoverable
Thallium	0.000095	J	0.00050	0.000085	mg/L	5		6020	Total Recoverable
Boron - DL	4.8		0.50	0.21	mg/L	50		6020	Total Recoverable

This Detection Summary does not include radiochemical test results.

TestAmerica Pensacola

Detection Summary

Client: Southern Company
Project/Site: CCR Plant Scherer

TestAmerica Job ID: 400-131190-1
SDG: Ash Pond

Client Sample ID: SGWC-18 (Continued)

Lab Sample ID: 400-131190-29

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Mercury	0.00014	J B	0.00020	0.000070	mg/L	1		7470A	Total/NA
Total Dissolved Solids	720		5.0	3.4	mg/L	1		SM 2540C	Total/NA

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

This Detection Summary does not include radiochemical test results.

TestAmerica Pensacola

Method Summary

Client: Southern Company
Project/Site: CCR Plant Scherer

TestAmerica Job ID: 400-131190-1
SDG: Ash Pond

Method	Method Description	Protocol	Laboratory
300.0	Anions, Ion Chromatography	MCAWW	TAL PEN
6020	Metals (ICP/MS)	SW846	TAL PEN
7470A	Mercury (CVAA)	SW846	TAL PEN
SM 2540C	Solids, Total Dissolved (TDS)	SM	TAL PEN

Protocol References:

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:

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

Sample Summary

Client: Southern Company
Project/Site: CCR Plant Scherer

TestAmerica Job ID: 400-131190-1
SDG: Ash Pond

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
400-131190-1	SGWA-24	Water	12/05/16 15:13	12/07/16 09:08
400-131190-2	FD-1 (AP)	Water	12/05/16 00:00	12/07/16 09:08
400-131190-3	SGWA-5	Water	12/06/16 10:30	12/08/16 10:26
400-131190-4	FD-2 (AP)	Water	12/06/16 00:00	12/08/16 10:26
400-131190-5	SGWA-1	Water	12/06/16 10:53	12/08/16 10:26
400-131190-6	SGWC-7	Water	12/06/16 12:01	12/08/16 10:26
400-131190-7	SGWA-2	Water	12/06/16 12:09	12/08/16 10:26
400-131190-8	SGWA-25	Water	12/06/16 13:00	12/08/16 10:26
400-131190-9	SGWA-3	Water	12/06/16 13:10	12/08/16 10:26
400-131190-10	SGWC-8	Water	12/06/16 13:07	12/08/16 10:26
400-131190-11	SGWC-11	Water	12/06/16 14:23	12/08/16 10:26
400-131190-12	SGWC-12	Water	12/06/16 15:11	12/08/16 10:26
400-131190-13	FD-3 (AP)	Water	12/06/16 00:00	12/08/16 10:26
400-131190-14	SGWC-10	Water	12/06/16 15:01	12/08/16 10:26
400-131190-15	SGWA-4	Water	12/06/16 14:25	12/08/16 10:26
400-131190-16	SGWC-6	Water	12/06/16 16:18	12/08/16 10:26
400-131190-17	SGWC-13	Water	12/06/16 16:00	12/08/16 10:26
400-131190-18	SGWC-23	Water	12/07/16 10:08	12/09/16 09:11
400-131190-19	FB-1 (AP)	Water	12/07/16 10:05	12/09/16 09:11
400-131190-20	SGWC-17	Water	12/07/16 10:10	12/09/16 09:11
400-131190-21	FB-2 (AP)	Water	12/07/16 09:50	12/09/16 09:11
400-131190-22	SGWC-14	Water	12/07/16 10:13	12/09/16 09:11
400-131190-23	SGWC-22	Water	12/07/16 10:56	12/09/16 09:11
400-131190-24	FB-3 (AP)	Water	12/07/16 11:00	12/09/16 09:11
400-131190-25	SGWC-21	Water	12/07/16 11:56	12/09/16 09:11
400-131190-26	SGWC-15	Water	12/07/16 11:57	12/09/16 09:11
400-131190-27	SGWC-16	Water	12/07/16 15:20	12/09/16 09:11
400-131190-28	SGWC-9	Water	12/07/16 15:16	12/09/16 09:11
400-131190-29	SGWC-18	Water	12/07/16 11:35	12/09/16 09:11

Client Sample Results

Client: Southern Company
Project/Site: CCR Plant Scherer

TestAmerica Job ID: 400-131190-1
SDG: Ash Pond

Client Sample ID: SGWA-24

Lab Sample ID: 400-131190-1

Date Collected: 12/05/16 15:13

Matrix: Water

Date Received: 12/07/16 09:08

Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	1.9		1.0	0.89	mg/L			12/14/16 02:54	1
Fluoride	<0.082	*	0.20	0.082	mg/L			12/14/16 02:54	1
Sulfate	<0.70		1.0	0.70	mg/L			12/14/16 02:54	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0010		0.0025	0.0010	mg/L		12/13/16 11:25	12/14/16 12:23	5
Arsenic	<0.00046		0.0013	0.00046	mg/L		12/13/16 11:25	12/14/16 12:23	5
Barium	0.023		0.0025	0.00049	mg/L		12/13/16 11:25	12/14/16 12:23	5
Beryllium	<0.00034		0.0025	0.00034	mg/L		12/13/16 11:25	12/14/16 12:23	5
Boron	<0.021		0.050	0.021	mg/L		12/13/16 11:25	12/14/16 12:23	5
Cadmium	<0.00034		0.0025	0.00034	mg/L		12/13/16 11:25	12/14/16 12:23	5
Calcium	12		0.25	0.13	mg/L		12/13/16 11:25	12/14/16 12:23	5
Chromium	0.0027		0.0025	0.0011	mg/L		12/13/16 11:25	12/14/16 12:23	5
Cobalt	<0.00040		0.0025	0.00040	mg/L		12/13/16 11:25	12/14/16 12:23	5
Lead	<0.00035		0.0013	0.00035	mg/L		12/13/16 11:25	12/14/16 12:23	5
Lithium	<0.0032		0.0050	0.0032	mg/L		12/13/16 11:25	12/14/16 12:23	5
Molybdenum	<0.00085		0.015	0.00085	mg/L		12/13/16 11:25	12/14/16 12:23	5
Selenium	<0.00024		0.0013	0.00024	mg/L		12/13/16 11:25	12/14/16 12:23	5
Thallium	<0.000085		0.00050	0.000085	mg/L		12/13/16 11:25	12/14/16 12:23	5

Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.00012	J B	0.00020	0.000070	mg/L		12/16/16 11:16	12/29/16 16:27	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	110		5.0	3.4	mg/L			12/11/16 14:35	1

Client Sample Results

Client: Southern Company
Project/Site: CCR Plant Scherer

TestAmerica Job ID: 400-131190-1
SDG: Ash Pond

Client Sample ID: FD-1 (AP)

Date Collected: 12/05/16 00:00

Date Received: 12/07/16 09:08

Lab Sample ID: 400-131190-2

Matrix: Water

Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	1.9		1.0	0.89	mg/L			12/14/16 03:17	1
Fluoride	<0.082	*	0.20	0.082	mg/L			12/14/16 03:17	1
Sulfate	<0.70		1.0	0.70	mg/L			12/14/16 03:17	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0010		0.0025	0.0010	mg/L		12/13/16 11:25	12/14/16 12:28	5
Arsenic	<0.00046		0.0013	0.00046	mg/L		12/13/16 11:25	12/14/16 12:28	5
Barium	0.023		0.0025	0.00049	mg/L		12/13/16 11:25	12/14/16 12:28	5
Beryllium	<0.00034		0.0025	0.00034	mg/L		12/13/16 11:25	12/14/16 12:28	5
Boron	<0.021		0.050	0.021	mg/L		12/13/16 11:25	12/14/16 12:28	5
Cadmium	<0.00034		0.0025	0.00034	mg/L		12/13/16 11:25	12/14/16 12:28	5
Calcium	12		0.25	0.13	mg/L		12/13/16 11:25	12/14/16 12:28	5
Chromium	0.0028		0.0025	0.0011	mg/L		12/13/16 11:25	12/14/16 12:28	5
Cobalt	<0.00040		0.0025	0.00040	mg/L		12/13/16 11:25	12/14/16 12:28	5
Lead	<0.00035		0.0013	0.00035	mg/L		12/13/16 11:25	12/14/16 12:28	5
Lithium	<0.0032		0.0050	0.0032	mg/L		12/13/16 11:25	12/14/16 12:28	5
Molybdenum	<0.00085		0.015	0.00085	mg/L		12/13/16 11:25	12/14/16 12:28	5
Selenium	<0.00024		0.0013	0.00024	mg/L		12/13/16 11:25	12/14/16 12:28	5
Thallium	<0.000085		0.00050	0.000085	mg/L		12/13/16 11:25	12/14/16 12:28	5

Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.00011	J B	0.00020	0.000070	mg/L		12/16/16 11:16	12/29/16 16:28	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	110		5.0	3.4	mg/L			12/11/16 14:35	1

Client Sample Results

Client: Southern Company
Project/Site: CCR Plant Scherer

TestAmerica Job ID: 400-131190-1
SDG: Ash Pond

Client Sample ID: SGWA-5

Lab Sample ID: 400-131190-3

Date Collected: 12/06/16 10:30

Matrix: Water

Date Received: 12/08/16 10:26

Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	1.8		1.0	0.89	mg/L			12/14/16 03:40	1
Fluoride	<0.082	*	0.20	0.082	mg/L			12/14/16 03:40	1
Sulfate	<0.70		1.0	0.70	mg/L			12/14/16 03:40	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0010		0.0025	0.0010	mg/L		12/13/16 11:25	12/14/16 12:32	5
Arsenic	<0.00046		0.0013	0.00046	mg/L		12/13/16 11:25	12/14/16 12:32	5
Barium	0.011		0.0025	0.00049	mg/L		12/13/16 11:25	12/14/16 12:32	5
Beryllium	<0.00034		0.0025	0.00034	mg/L		12/13/16 11:25	12/14/16 12:32	5
Boron	<0.021		0.050	0.021	mg/L		12/13/16 11:25	12/14/16 12:32	5
Cadmium	<0.00034		0.0025	0.00034	mg/L		12/13/16 11:25	12/14/16 12:32	5
Calcium	1.4		0.25	0.13	mg/L		12/13/16 11:25	12/14/16 12:32	5
Chromium	<0.0011		0.0025	0.0011	mg/L		12/13/16 11:25	12/14/16 12:32	5
Cobalt	<0.00040		0.0025	0.00040	mg/L		12/13/16 11:25	12/14/16 12:32	5
Lead	<0.00035		0.0013	0.00035	mg/L		12/13/16 11:25	12/14/16 12:32	5
Lithium	<0.0032		0.0050	0.0032	mg/L		12/13/16 11:25	12/14/16 12:32	5
Molybdenum	<0.00085		0.015	0.00085	mg/L		12/13/16 11:25	12/14/16 12:32	5
Selenium	<0.00024		0.0013	0.00024	mg/L		12/13/16 11:25	12/14/16 12:32	5
Thallium	<0.000085		0.00050	0.000085	mg/L		12/13/16 11:25	12/14/16 12:32	5

Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.00012	J B	0.00020	0.000070	mg/L		12/16/16 11:16	12/29/16 16:29	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	72		5.0	3.4	mg/L			12/10/16 15:53	1

Client Sample Results

Client: Southern Company
Project/Site: CCR Plant Scherer

TestAmerica Job ID: 400-131190-1
SDG: Ash Pond

Client Sample ID: FD-2 (AP)

Date Collected: 12/06/16 00:00

Date Received: 12/08/16 10:26

Lab Sample ID: 400-131190-4

Matrix: Water

Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	1.8		1.0	0.89	mg/L			12/14/16 04:03	1
Fluoride	<0.082	*	0.20	0.082	mg/L			12/14/16 04:03	1
Sulfate	<0.70		1.0	0.70	mg/L			12/14/16 04:03	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0010		0.0025	0.0010	mg/L		12/13/16 11:25	12/14/16 12:37	5
Arsenic	<0.00046		0.0013	0.00046	mg/L		12/13/16 11:25	12/14/16 12:37	5
Barium	0.010		0.0025	0.00049	mg/L		12/13/16 11:25	12/14/16 12:37	5
Beryllium	<0.00034		0.0025	0.00034	mg/L		12/13/16 11:25	12/14/16 12:37	5
Boron	<0.021		0.050	0.021	mg/L		12/13/16 11:25	12/14/16 12:37	5
Cadmium	<0.00034		0.0025	0.00034	mg/L		12/13/16 11:25	12/14/16 12:37	5
Calcium	1.4		0.25	0.13	mg/L		12/13/16 11:25	12/14/16 12:37	5
Chromium	<0.0011		0.0025	0.0011	mg/L		12/13/16 11:25	12/14/16 12:37	5
Cobalt	<0.00040		0.0025	0.00040	mg/L		12/13/16 11:25	12/14/16 12:37	5
Lead	<0.00035		0.0013	0.00035	mg/L		12/13/16 11:25	12/14/16 12:37	5
Lithium	<0.0032		0.0050	0.0032	mg/L		12/13/16 11:25	12/14/16 12:37	5
Molybdenum	<0.00085		0.015	0.00085	mg/L		12/13/16 11:25	12/14/16 12:37	5
Selenium	<0.00024		0.0013	0.00024	mg/L		12/13/16 11:25	12/14/16 12:37	5
Thallium	<0.000085		0.00050	0.000085	mg/L		12/13/16 11:25	12/14/16 12:37	5

Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.00012	J B	0.00020	0.000070	mg/L		12/16/16 11:16	12/29/16 16:31	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	60		5.0	3.4	mg/L			12/11/16 14:35	1

Client Sample Results

Client: Southern Company
Project/Site: CCR Plant Scherer

TestAmerica Job ID: 400-131190-1
SDG: Ash Pond

Client Sample ID: SGWA-1

Date Collected: 12/06/16 10:53

Date Received: 12/08/16 10:26

Lab Sample ID: 400-131190-5

Matrix: Water

Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	2.2		1.0	0.89	mg/L			12/14/16 04:25	1
Fluoride	<0.082	*	0.20	0.082	mg/L			12/14/16 04:25	1
Sulfate	3.2		1.0	0.70	mg/L			12/14/16 04:25	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0010		0.0025	0.0010	mg/L		12/13/16 11:25	12/14/16 12:41	5
Arsenic	<0.00046		0.0013	0.00046	mg/L		12/13/16 11:25	12/14/16 12:41	5
Barium	0.053		0.0025	0.00049	mg/L		12/13/16 11:25	12/14/16 12:41	5
Beryllium	<0.00034		0.0025	0.00034	mg/L		12/13/16 11:25	12/14/16 12:41	5
Boron	<0.021		0.050	0.021	mg/L		12/13/16 11:25	12/14/16 12:41	5
Cadmium	<0.00034		0.0025	0.00034	mg/L		12/13/16 11:25	12/14/16 12:41	5
Calcium	2.1		0.25	0.13	mg/L		12/13/16 11:25	12/14/16 12:41	5
Chromium	<0.0011		0.0025	0.0011	mg/L		12/13/16 11:25	12/14/16 12:41	5
Cobalt	0.016		0.0025	0.00040	mg/L		12/13/16 11:25	12/14/16 12:41	5
Lead	<0.00035		0.0013	0.00035	mg/L		12/13/16 11:25	12/14/16 12:41	5
Lithium	<0.0032		0.0050	0.0032	mg/L		12/13/16 11:25	12/14/16 12:41	5
Molybdenum	<0.00085		0.015	0.00085	mg/L		12/13/16 11:25	12/14/16 12:41	5
Selenium	<0.00024		0.0013	0.00024	mg/L		12/13/16 11:25	12/14/16 12:41	5
Thallium	<0.000085		0.00050	0.000085	mg/L		12/13/16 11:25	12/14/16 12:41	5

Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.00012	J B	0.00020	0.000070	mg/L		12/16/16 11:16	12/29/16 16:32	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	54		5.0	3.4	mg/L			12/10/16 15:53	1

Client Sample Results

Client: Southern Company
Project/Site: CCR Plant Scherer

TestAmerica Job ID: 400-131190-1
SDG: Ash Pond

Client Sample ID: SGWC-7

Lab Sample ID: 400-131190-6

Date Collected: 12/06/16 12:01

Matrix: Water

Date Received: 12/08/16 10:26

Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	5.9		1.0	0.89	mg/L			12/14/16 04:48	1
Fluoride	0.26		0.20	0.082	mg/L			12/14/16 15:32	1
Sulfate	18		1.0	0.70	mg/L			12/14/16 04:48	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0010		0.0025	0.0010	mg/L		12/13/16 11:25	12/14/16 12:46	5
Arsenic	<0.00046		0.0013	0.00046	mg/L		12/13/16 11:25	12/14/16 12:46	5
Barium	0.31		0.0025	0.00049	mg/L		12/13/16 11:25	12/14/16 12:46	5
Beryllium	<0.00034		0.0025	0.00034	mg/L		12/13/16 11:25	12/14/16 12:46	5
Boron	0.030	J	0.050	0.021	mg/L		12/13/16 11:25	12/14/16 12:46	5
Cadmium	<0.00034		0.0025	0.00034	mg/L		12/13/16 11:25	12/14/16 12:46	5
Calcium	23		0.25	0.13	mg/L		12/13/16 11:25	12/14/16 12:46	5
Chromium	<0.0011		0.0025	0.0011	mg/L		12/13/16 11:25	12/14/16 12:46	5
Cobalt	0.011		0.0025	0.00040	mg/L		12/13/16 11:25	12/14/16 12:46	5
Lead	<0.00035		0.0013	0.00035	mg/L		12/13/16 11:25	12/14/16 12:46	5
Lithium	0.0043	J	0.0050	0.0032	mg/L		12/13/16 11:25	12/14/16 12:46	5
Molybdenum	0.0021	J	0.015	0.00085	mg/L		12/13/16 11:25	12/14/16 12:46	5
Selenium	<0.00024		0.0013	0.00024	mg/L		12/13/16 11:25	12/14/16 12:46	5
Thallium	<0.000085		0.00050	0.000085	mg/L		12/13/16 11:25	12/14/16 12:46	5

Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.00011	J B	0.00020	0.000070	mg/L		12/16/16 11:16	12/29/16 16:33	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	250		5.0	3.4	mg/L			12/10/16 15:53	1

Client Sample Results

Client: Southern Company
Project/Site: CCR Plant Scherer

TestAmerica Job ID: 400-131190-1
SDG: Ash Pond

Client Sample ID: SGWA-2

Lab Sample ID: 400-131190-7

Date Collected: 12/06/16 12:09

Matrix: Water

Date Received: 12/08/16 10:26

Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	1.5		1.0	0.89	mg/L			12/14/16 05:57	1
Fluoride	<0.082	*	0.20	0.082	mg/L			12/14/16 05:57	1
Sulfate	<0.70		1.0	0.70	mg/L			12/14/16 05:57	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0010		0.0025	0.0010	mg/L		12/13/16 11:25	12/14/16 12:50	5
Arsenic	<0.00046		0.0013	0.00046	mg/L		12/13/16 11:25	12/14/16 12:50	5
Barium	0.042		0.0025	0.00049	mg/L		12/13/16 11:25	12/14/16 12:50	5
Beryllium	<0.00034		0.0025	0.00034	mg/L		12/13/16 11:25	12/14/16 12:50	5
Boron	<0.021		0.050	0.021	mg/L		12/13/16 11:25	12/14/16 12:50	5
Cadmium	<0.00034		0.0025	0.00034	mg/L		12/13/16 11:25	12/14/16 12:50	5
Calcium	10		0.25	0.13	mg/L		12/13/16 11:25	12/14/16 12:50	5
Chromium	0.0043		0.0025	0.0011	mg/L		12/13/16 11:25	12/14/16 12:50	5
Cobalt	<0.00040		0.0025	0.00040	mg/L		12/13/16 11:25	12/14/16 12:50	5
Lead	<0.00035		0.0013	0.00035	mg/L		12/13/16 11:25	12/14/16 12:50	5
Lithium	<0.0032		0.0050	0.0032	mg/L		12/13/16 11:25	12/14/16 12:50	5
Molybdenum	<0.00085		0.015	0.00085	mg/L		12/13/16 11:25	12/14/16 12:50	5
Selenium	<0.00024		0.0013	0.00024	mg/L		12/13/16 11:25	12/14/16 12:50	5
Thallium	<0.000085		0.00050	0.000085	mg/L		12/13/16 11:25	12/14/16 12:50	5

Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.00011	J B	0.00020	0.000070	mg/L		12/16/16 11:16	12/29/16 16:34	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	110		5.0	3.4	mg/L			12/10/16 15:53	1

Client Sample Results

Client: Southern Company
Project/Site: CCR Plant Scherer

TestAmerica Job ID: 400-131190-1
SDG: Ash Pond

Client Sample ID: SGWA-25

Date Collected: 12/06/16 13:00

Date Received: 12/08/16 10:26

Lab Sample ID: 400-131190-8

Matrix: Water

Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	1.7		1.0	0.89	mg/L			12/14/16 20:05	1
Fluoride	<0.082		0.20	0.082	mg/L			12/14/16 20:05	1
Sulfate	<0.70		1.0	0.70	mg/L			12/14/16 20:05	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0010		0.0025	0.0010	mg/L		12/13/16 10:50	12/13/16 14:56	5
Arsenic	0.00075	J	0.0013	0.00046	mg/L		12/13/16 10:50	12/13/16 14:56	5
Barium	0.020		0.0025	0.00049	mg/L		12/13/16 10:50	12/13/16 14:56	5
Beryllium	<0.00034		0.0025	0.00034	mg/L		12/13/16 10:50	12/13/16 14:56	5
Boron	<0.021		0.050	0.021	mg/L		12/13/16 10:50	12/13/16 14:56	5
Cadmium	<0.00034		0.0025	0.00034	mg/L		12/13/16 10:50	12/13/16 14:56	5
Calcium	11		0.25	0.13	mg/L		12/13/16 10:50	12/13/16 14:56	5
Chromium	<0.0011		0.0025	0.0011	mg/L		12/13/16 10:50	12/13/16 14:56	5
Cobalt	0.016		0.0025	0.00040	mg/L		12/13/16 10:50	12/13/16 14:56	5
Lead	<0.00035		0.0013	0.00035	mg/L		12/13/16 10:50	12/13/16 14:56	5
Lithium	<0.0032		0.0050	0.0032	mg/L		12/13/16 10:50	12/13/16 14:56	5
Molybdenum	<0.00085		0.015	0.00085	mg/L		12/13/16 10:50	12/13/16 14:56	5
Selenium	<0.00024		0.0013	0.00024	mg/L		12/13/16 10:50	12/13/16 14:56	5
Thallium	<0.000085		0.00050	0.000085	mg/L		12/13/16 10:50	12/13/16 14:56	5

Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.00011	J B	0.00020	0.000070	mg/L		12/16/16 11:16	12/29/16 16:36	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	110		5.0	3.4	mg/L			12/10/16 15:53	1

Client Sample Results

Client: Southern Company
Project/Site: CCR Plant Scherer

TestAmerica Job ID: 400-131190-1
SDG: Ash Pond

Client Sample ID: SGWA-3

Date Collected: 12/06/16 13:10

Date Received: 12/08/16 10:26

Lab Sample ID: 400-131190-9

Matrix: Water

Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	3.0		1.0	0.89	mg/L			12/14/16 21:14	1
Fluoride	<0.082		0.20	0.082	mg/L			12/14/16 21:14	1
Sulfate	1.3		1.0	0.70	mg/L			12/14/16 21:14	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0010		0.0025	0.0010	mg/L		12/13/16 10:50	12/13/16 15:01	5
Arsenic	<0.00046		0.0013	0.00046	mg/L		12/13/16 10:50	12/13/16 15:01	5
Barium	0.033		0.0025	0.00049	mg/L		12/13/16 10:50	12/13/16 15:01	5
Beryllium	<0.00034		0.0025	0.00034	mg/L		12/13/16 10:50	12/13/16 15:01	5
Boron	<0.021		0.050	0.021	mg/L		12/13/16 10:50	12/13/16 15:01	5
Cadmium	<0.00034		0.0025	0.00034	mg/L		12/13/16 10:50	12/13/16 15:01	5
Calcium	4.8		0.25	0.13	mg/L		12/13/16 10:50	12/13/16 15:01	5
Chromium	0.0063		0.0025	0.0011	mg/L		12/13/16 10:50	12/13/16 15:01	5
Cobalt	<0.00040		0.0025	0.00040	mg/L		12/13/16 10:50	12/13/16 15:01	5
Lead	<0.00035		0.0013	0.00035	mg/L		12/13/16 10:50	12/13/16 15:01	5
Lithium	<0.0032		0.0050	0.0032	mg/L		12/13/16 10:50	12/13/16 15:01	5
Molybdenum	<0.00085		0.015	0.00085	mg/L		12/13/16 10:50	12/13/16 15:01	5
Selenium	<0.00024		0.0013	0.00024	mg/L		12/13/16 10:50	12/13/16 15:01	5
Thallium	<0.000085		0.00050	0.000085	mg/L		12/13/16 10:50	12/13/16 15:01	5

Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.000087	J B	0.00020	0.000070	mg/L		12/16/16 11:16	12/29/16 14:42	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	70		5.0	3.4	mg/L			12/10/16 15:53	1

Client Sample Results

Client: Southern Company
Project/Site: CCR Plant Scherer

TestAmerica Job ID: 400-131190-1
SDG: Ash Pond

Client Sample ID: SGWC-8

Lab Sample ID: 400-131190-10

Date Collected: 12/06/16 13:07

Matrix: Water

Date Received: 12/08/16 10:26

Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	12		1.0	0.89	mg/L			12/14/16 21:37	1
Fluoride	0.58		0.20	0.082	mg/L			12/14/16 21:37	1
Sulfate	72		5.0	3.5	mg/L			12/15/16 19:56	5

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0010		0.0025	0.0010	mg/L		12/13/16 10:50	12/13/16 15:05	5
Arsenic	<0.00046		0.0013	0.00046	mg/L		12/13/16 10:50	12/13/16 15:05	5
Barium	0.16		0.0025	0.00049	mg/L		12/13/16 10:50	12/13/16 15:05	5
Beryllium	<0.00034		0.0025	0.00034	mg/L		12/13/16 10:50	12/13/16 15:05	5
Boron	0.054		0.050	0.021	mg/L		12/13/16 10:50	12/13/16 15:05	5
Cadmium	<0.00034		0.0025	0.00034	mg/L		12/13/16 10:50	12/13/16 15:05	5
Calcium	45		0.25	0.13	mg/L		12/13/16 10:50	12/13/16 15:05	5
Chromium	<0.0011		0.0025	0.0011	mg/L		12/13/16 10:50	12/13/16 15:05	5
Cobalt	<0.00040		0.0025	0.00040	mg/L		12/13/16 10:50	12/13/16 15:05	5
Lead	<0.00035		0.0013	0.00035	mg/L		12/13/16 10:50	12/13/16 15:05	5
Lithium	<0.0032		0.0050	0.0032	mg/L		12/13/16 10:50	12/13/16 15:05	5
Molybdenum	<0.00085		0.015	0.00085	mg/L		12/13/16 10:50	12/13/16 15:05	5
Selenium	<0.00024		0.0013	0.00024	mg/L		12/13/16 10:50	12/13/16 15:05	5
Thallium	<0.000085		0.00050	0.000085	mg/L		12/13/16 10:50	12/13/16 15:05	5

Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.000076	J B	0.00020	0.000070	mg/L		12/16/16 11:16	12/29/16 14:48	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	420		5.0	3.4	mg/L			12/10/16 15:53	1

Client Sample Results

Client: Southern Company
Project/Site: CCR Plant Scherer

TestAmerica Job ID: 400-131190-1
SDG: Ash Pond

Client Sample ID: SGWC-11

Lab Sample ID: 400-131190-11

Date Collected: 12/06/16 14:23

Matrix: Water

Date Received: 12/08/16 10:26

Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	7.9		1.0	0.89	mg/L			12/14/16 22:00	1
Fluoride	<0.082		0.20	0.082	mg/L			12/14/16 22:00	1
Sulfate	1.9		1.0	0.70	mg/L			12/14/16 22:00	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0010		0.0025	0.0010	mg/L		12/13/16 10:50	12/13/16 15:10	5
Arsenic	0.00072	J	0.0013	0.00046	mg/L		12/13/16 10:50	12/13/16 15:10	5
Barium	0.035		0.0025	0.00049	mg/L		12/13/16 10:50	12/13/16 15:10	5
Beryllium	<0.00034		0.0025	0.00034	mg/L		12/13/16 10:50	12/13/16 15:10	5
Boron	0.27		0.050	0.021	mg/L		12/13/16 10:50	12/13/16 15:10	5
Cadmium	<0.00034		0.0025	0.00034	mg/L		12/13/16 10:50	12/13/16 15:10	5
Calcium	1.9		0.25	0.13	mg/L		12/13/16 10:50	12/13/16 15:10	5
Chromium	<0.0011		0.0025	0.0011	mg/L		12/13/16 10:50	12/13/16 15:10	5
Cobalt	0.029		0.0025	0.00040	mg/L		12/13/16 10:50	12/13/16 15:10	5
Lead	<0.00035		0.0013	0.00035	mg/L		12/13/16 10:50	12/13/16 15:10	5
Lithium	<0.0032		0.0050	0.0032	mg/L		12/13/16 10:50	12/13/16 15:10	5
Molybdenum	<0.00085		0.015	0.00085	mg/L		12/13/16 10:50	12/13/16 15:10	5
Selenium	<0.00024		0.0013	0.00024	mg/L		12/13/16 10:50	12/13/16 15:10	5
Thallium	<0.000085		0.00050	0.000085	mg/L		12/13/16 10:50	12/13/16 15:10	5

Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.00010	J B	0.00020	0.000070	mg/L		12/16/16 11:16	12/29/16 14:50	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	70		5.0	3.4	mg/L			12/10/16 15:53	1

Client Sample Results

Client: Southern Company
Project/Site: CCR Plant Scherer

TestAmerica Job ID: 400-131190-1
SDG: Ash Pond

Client Sample ID: SGWC-12

Lab Sample ID: 400-131190-12

Date Collected: 12/06/16 15:11

Matrix: Water

Date Received: 12/08/16 10:26

Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	8.9		1.0	0.89	mg/L			12/14/16 22:22	1
Fluoride	0.11	J	0.20	0.082	mg/L			12/14/16 22:22	1
Sulfate	28		1.0	0.70	mg/L			12/14/16 22:22	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0010		0.0025	0.0010	mg/L		12/13/16 10:50	12/13/16 15:14	5
Arsenic	<0.00046		0.0013	0.00046	mg/L		12/13/16 10:50	12/13/16 15:14	5
Barium	0.032		0.0025	0.00049	mg/L		12/13/16 10:50	12/13/16 15:14	5
Beryllium	<0.00034		0.0025	0.00034	mg/L		12/13/16 10:50	12/13/16 15:14	5
Boron	<0.021		0.050	0.021	mg/L		12/13/16 10:50	12/13/16 15:14	5
Cadmium	<0.00034		0.0025	0.00034	mg/L		12/13/16 10:50	12/13/16 15:14	5
Calcium	21		0.25	0.13	mg/L		12/13/16 10:50	12/13/16 15:14	5
Chromium	<0.0011		0.0025	0.0011	mg/L		12/13/16 10:50	12/13/16 15:14	5
Cobalt	0.0036		0.0025	0.00040	mg/L		12/13/16 10:50	12/13/16 15:14	5
Lead	<0.00035		0.0013	0.00035	mg/L		12/13/16 10:50	12/13/16 15:14	5
Lithium	<0.0032		0.0050	0.0032	mg/L		12/13/16 10:50	12/13/16 15:14	5
Molybdenum	<0.00085		0.015	0.00085	mg/L		12/13/16 10:50	12/13/16 15:14	5
Selenium	<0.00024		0.0013	0.00024	mg/L		12/13/16 10:50	12/13/16 15:14	5
Thallium	<0.000085		0.00050	0.000085	mg/L		12/13/16 10:50	12/13/16 15:14	5

Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.000093	J B	0.00020	0.000070	mg/L		12/16/16 11:16	12/29/16 14:51	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	220		5.0	3.4	mg/L			12/10/16 15:53	1

Client Sample Results

Client: Southern Company
Project/Site: CCR Plant Scherer

TestAmerica Job ID: 400-131190-1
SDG: Ash Pond

Client Sample ID: FD-3 (AP)

Date Collected: 12/06/16 00:00

Date Received: 12/08/16 10:26

Lab Sample ID: 400-131190-13

Matrix: Water

Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	8.9		1.0	0.89	mg/L			12/14/16 22:45	1
Fluoride	0.11	J	0.20	0.082	mg/L			12/14/16 22:45	1
Sulfate	29		1.0	0.70	mg/L			12/14/16 22:45	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0010		0.0025	0.0010	mg/L		12/13/16 10:50	12/13/16 15:19	5
Arsenic	<0.00046		0.0013	0.00046	mg/L		12/13/16 10:50	12/13/16 15:19	5
Barium	0.033		0.0025	0.00049	mg/L		12/13/16 10:50	12/13/16 15:19	5
Beryllium	<0.00034		0.0025	0.00034	mg/L		12/13/16 10:50	12/13/16 15:19	5
Boron	<0.021		0.050	0.021	mg/L		12/13/16 10:50	12/13/16 15:19	5
Cadmium	<0.00034		0.0025	0.00034	mg/L		12/13/16 10:50	12/13/16 15:19	5
Calcium	21		0.25	0.13	mg/L		12/13/16 10:50	12/13/16 15:19	5
Chromium	<0.0011		0.0025	0.0011	mg/L		12/13/16 10:50	12/13/16 15:19	5
Cobalt	0.0034		0.0025	0.00040	mg/L		12/13/16 10:50	12/13/16 15:19	5
Lead	<0.00035		0.0013	0.00035	mg/L		12/13/16 10:50	12/13/16 15:19	5
Lithium	<0.0032		0.0050	0.0032	mg/L		12/13/16 10:50	12/13/16 15:19	5
Molybdenum	<0.00085		0.015	0.00085	mg/L		12/13/16 10:50	12/13/16 15:19	5
Selenium	<0.00024		0.0013	0.00024	mg/L		12/13/16 10:50	12/13/16 15:19	5
Thallium	<0.000085		0.00050	0.000085	mg/L		12/13/16 10:50	12/13/16 15:19	5

Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.000087	J B	0.00020	0.000070	mg/L		12/16/16 11:16	12/29/16 14:52	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	200		5.0	3.4	mg/L			12/11/16 14:35	1

Client Sample Results

Client: Southern Company
Project/Site: CCR Plant Scherer

TestAmerica Job ID: 400-131190-1
SDG: Ash Pond

Client Sample ID: SGWC-10

Lab Sample ID: 400-131190-14

Date Collected: 12/06/16 15:01

Matrix: Water

Date Received: 12/08/16 10:26

Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	8.9		1.0	0.89	mg/L			12/14/16 23:08	1
Fluoride	<0.082		0.20	0.082	mg/L			12/14/16 23:08	1
Sulfate	11		1.0	0.70	mg/L			12/14/16 23:08	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0010		0.0025	0.0010	mg/L		12/13/16 10:50	12/13/16 15:23	5
Arsenic	<0.00046		0.0013	0.00046	mg/L		12/13/16 10:50	12/13/16 15:23	5
Barium	0.030		0.0025	0.00049	mg/L		12/13/16 10:50	12/13/16 15:23	5
Beryllium	<0.00034		0.0025	0.00034	mg/L		12/13/16 10:50	12/13/16 15:23	5
Boron	<0.021		0.050	0.021	mg/L		12/13/16 10:50	12/13/16 15:23	5
Cadmium	<0.00034		0.0025	0.00034	mg/L		12/13/16 10:50	12/13/16 15:23	5
Calcium	4.3		0.25	0.13	mg/L		12/13/16 10:50	12/13/16 15:23	5
Chromium	<0.0011		0.0025	0.0011	mg/L		12/13/16 10:50	12/13/16 15:23	5
Cobalt	0.040		0.0025	0.00040	mg/L		12/13/16 10:50	12/13/16 15:23	5
Lead	<0.00035		0.0013	0.00035	mg/L		12/13/16 10:50	12/13/16 15:23	5
Lithium	<0.0032		0.0050	0.0032	mg/L		12/13/16 10:50	12/13/16 15:23	5
Molybdenum	<0.00085		0.015	0.00085	mg/L		12/13/16 10:50	12/13/16 15:23	5
Selenium	<0.00024		0.0013	0.00024	mg/L		12/13/16 10:50	12/13/16 15:23	5
Thallium	<0.000085		0.00050	0.000085	mg/L		12/13/16 10:50	12/13/16 15:23	5

Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.00013	J B	0.00020	0.000070	mg/L		12/16/16 11:16	12/29/16 15:01	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	40		5.0	3.4	mg/L			12/10/16 15:53	1

Client Sample Results

Client: Southern Company
Project/Site: CCR Plant Scherer

TestAmerica Job ID: 400-131190-1
SDG: Ash Pond

Client Sample ID: SGWA-4

Date Collected: 12/06/16 14:25

Date Received: 12/08/16 10:26

Lab Sample ID: 400-131190-15

Matrix: Water

Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	1.3		1.0	0.89	mg/L			12/14/16 23:31	1
Fluoride	0.091	J	0.20	0.082	mg/L			12/14/16 23:31	1
Sulfate	1.4		1.0	0.70	mg/L			12/14/16 23:31	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0010		0.0025	0.0010	mg/L		12/13/16 10:50	12/13/16 15:28	5
Arsenic	<0.00046		0.0013	0.00046	mg/L		12/13/16 10:50	12/13/16 15:28	5
Barium	0.047		0.0025	0.00049	mg/L		12/13/16 10:50	12/13/16 15:28	5
Beryllium	<0.00034		0.0025	0.00034	mg/L		12/13/16 10:50	12/13/16 15:28	5
Boron	<0.021		0.050	0.021	mg/L		12/13/16 10:50	12/13/16 15:28	5
Cadmium	<0.00034		0.0025	0.00034	mg/L		12/13/16 10:50	12/13/16 15:28	5
Calcium	15		0.25	0.13	mg/L		12/13/16 10:50	12/13/16 15:28	5
Chromium	0.0028		0.0025	0.0011	mg/L		12/13/16 10:50	12/13/16 15:28	5
Cobalt	<0.00040		0.0025	0.00040	mg/L		12/13/16 10:50	12/13/16 15:28	5
Lead	<0.00035		0.0013	0.00035	mg/L		12/13/16 10:50	12/13/16 15:28	5
Lithium	<0.0032		0.0050	0.0032	mg/L		12/13/16 10:50	12/13/16 15:28	5
Molybdenum	0.00095	J	0.015	0.00085	mg/L		12/13/16 10:50	12/13/16 15:28	5
Selenium	<0.00024		0.0013	0.00024	mg/L		12/13/16 10:50	12/13/16 15:28	5
Thallium	<0.000085		0.00050	0.000085	mg/L		12/13/16 10:50	12/13/16 15:28	5

Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.00011	J B	0.00020	0.000070	mg/L		12/16/16 11:16	12/29/16 15:03	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	98		5.0	3.4	mg/L			12/10/16 16:29	1

Client Sample Results

Client: Southern Company
Project/Site: CCR Plant Scherer

TestAmerica Job ID: 400-131190-1
SDG: Ash Pond

Client Sample ID: SGWC-6

Lab Sample ID: 400-131190-16

Date Collected: 12/06/16 16:18

Matrix: Water

Date Received: 12/08/16 10:26

Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	2.3		1.0	0.89	mg/L			12/15/16 01:48	1
Fluoride	0.14	J	0.20	0.082	mg/L			12/15/16 01:48	1
Sulfate	<0.70		1.0	0.70	mg/L			12/15/16 01:48	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0010		0.0025	0.0010	mg/L		12/13/16 10:50	12/13/16 15:32	5
Arsenic	<0.00046		0.0013	0.00046	mg/L		12/13/16 10:50	12/13/16 15:32	5
Barium	0.11		0.0025	0.00049	mg/L		12/13/16 10:50	12/13/16 15:32	5
Beryllium	<0.00034		0.0025	0.00034	mg/L		12/13/16 10:50	12/13/16 15:32	5
Boron	<0.021		0.050	0.021	mg/L		12/13/16 10:50	12/13/16 15:32	5
Cadmium	<0.00034		0.0025	0.00034	mg/L		12/13/16 10:50	12/13/16 15:32	5
Calcium	8.2		0.25	0.13	mg/L		12/13/16 10:50	12/13/16 15:32	5
Chromium	<0.0011		0.0025	0.0011	mg/L		12/13/16 10:50	12/13/16 15:32	5
Cobalt	0.0012	J	0.0025	0.00040	mg/L		12/13/16 10:50	12/13/16 15:32	5
Lead	<0.00035		0.0013	0.00035	mg/L		12/13/16 10:50	12/13/16 15:32	5
Lithium	<0.0032		0.0050	0.0032	mg/L		12/13/16 10:50	12/13/16 15:32	5
Molybdenum	<0.00085		0.015	0.00085	mg/L		12/13/16 10:50	12/13/16 15:32	5
Selenium	<0.00024		0.0013	0.00024	mg/L		12/13/16 10:50	12/13/16 15:32	5
Thallium	<0.000085		0.00050	0.000085	mg/L		12/13/16 10:50	12/13/16 15:32	5

Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.00011	J B	0.00020	0.000070	mg/L		12/16/16 11:16	12/29/16 15:04	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	90		5.0	3.4	mg/L			12/10/16 16:29	1

Client Sample Results

Client: Southern Company
Project/Site: CCR Plant Scherer

TestAmerica Job ID: 400-131190-1
SDG: Ash Pond

Client Sample ID: SGWC-13

Lab Sample ID: 400-131190-17

Date Collected: 12/06/16 16:00

Matrix: Water

Date Received: 12/08/16 10:26

Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	5.6		1.0	0.89	mg/L			12/15/16 02:56	1
Fluoride	<0.082		0.20	0.082	mg/L			12/15/16 02:56	1
Sulfate	76		5.0	3.5	mg/L			12/15/16 20:19	5

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0010		0.0025	0.0010	mg/L		12/13/16 10:50	12/13/16 15:37	5
Arsenic	<0.00046		0.0013	0.00046	mg/L		12/13/16 10:50	12/13/16 15:37	5
Barium	0.025		0.0025	0.00049	mg/L		12/13/16 10:50	12/13/16 15:37	5
Beryllium	<0.00034		0.0025	0.00034	mg/L		12/13/16 10:50	12/13/16 15:37	5
Boron	0.50		0.050	0.021	mg/L		12/13/16 10:50	12/13/16 15:37	5
Cadmium	<0.00034		0.0025	0.00034	mg/L		12/13/16 10:50	12/13/16 15:37	5
Calcium	14		0.25	0.13	mg/L		12/13/16 10:50	12/13/16 15:37	5
Chromium	<0.0011		0.0025	0.0011	mg/L		12/13/16 10:50	12/13/16 15:37	5
Cobalt	0.0079		0.0025	0.00040	mg/L		12/13/16 10:50	12/13/16 15:37	5
Lead	<0.00035		0.0013	0.00035	mg/L		12/13/16 10:50	12/13/16 15:37	5
Lithium	<0.0032		0.0050	0.0032	mg/L		12/13/16 10:50	12/13/16 15:37	5
Molybdenum	<0.00085		0.015	0.00085	mg/L		12/13/16 10:50	12/13/16 15:37	5
Selenium	<0.00024		0.0013	0.00024	mg/L		12/13/16 10:50	12/13/16 15:37	5
Thallium	<0.000085		0.00050	0.000085	mg/L		12/13/16 10:50	12/13/16 15:37	5

Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.00011	J B	0.00020	0.000070	mg/L		12/16/16 11:16	12/29/16 15:05	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	110		5.0	3.4	mg/L			12/10/16 16:29	1

Client Sample Results

Client: Southern Company
Project/Site: CCR Plant Scherer

TestAmerica Job ID: 400-131190-1
SDG: Ash Pond

Client Sample ID: SGWC-23

Date Collected: 12/07/16 10:08

Date Received: 12/09/16 09:11

Lab Sample ID: 400-131190-18

Matrix: Water

Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	9.7		1.0	0.89	mg/L			12/15/16 03:19	1
Fluoride	<0.082		0.20	0.082	mg/L			12/15/16 03:19	1
Sulfate	140		5.0	3.5	mg/L			12/15/16 20:41	5

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0010		0.0025	0.0010	mg/L		12/13/16 10:50	12/13/16 16:04	5
Arsenic	<0.00046		0.0013	0.00046	mg/L		12/13/16 10:50	12/13/16 16:04	5
Barium	0.090		0.0025	0.00049	mg/L		12/13/16 10:50	12/13/16 16:04	5
Beryllium	<0.00034		0.0025	0.00034	mg/L		12/13/16 10:50	12/13/16 16:04	5
Boron	0.60		0.050	0.021	mg/L		12/13/16 10:50	12/13/16 16:04	5
Cadmium	<0.00034		0.0025	0.00034	mg/L		12/13/16 10:50	12/13/16 16:04	5
Calcium	30		0.25	0.13	mg/L		12/13/16 10:50	12/13/16 16:04	5
Chromium	<0.0011		0.0025	0.0011	mg/L		12/13/16 10:50	12/13/16 16:04	5
Cobalt	<0.00040		0.0025	0.00040	mg/L		12/13/16 10:50	12/13/16 16:04	5
Lead	<0.00035		0.0013	0.00035	mg/L		12/13/16 10:50	12/13/16 16:04	5
Lithium	0.0043	J	0.0050	0.0032	mg/L		12/13/16 10:50	12/13/16 16:04	5
Molybdenum	<0.00085		0.015	0.00085	mg/L		12/13/16 10:50	12/13/16 16:04	5
Selenium	<0.00024		0.0013	0.00024	mg/L		12/13/16 10:50	12/13/16 16:04	5
Thallium	<0.000085		0.00050	0.000085	mg/L		12/13/16 10:50	12/13/16 16:04	5

Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.00011	J B	0.00020	0.000070	mg/L		12/16/16 11:16	12/29/16 15:06	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	300		5.0	3.4	mg/L			12/10/16 16:29	1

Client Sample Results

Client: Southern Company
Project/Site: CCR Plant Scherer

TestAmerica Job ID: 400-131190-1
SDG: Ash Pond

Client Sample ID: FB-1 (AP)

Date Collected: 12/07/16 10:05

Date Received: 12/09/16 09:11

Lab Sample ID: 400-131190-19

Matrix: Water

Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<0.89		1.0	0.89	mg/L			12/15/16 03:42	1
Fluoride	<0.082		0.20	0.082	mg/L			12/15/16 03:42	1
Sulfate	<0.70		1.0	0.70	mg/L			12/15/16 03:42	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0010		0.0025	0.0010	mg/L		12/13/16 10:50	12/13/16 16:08	5
Arsenic	<0.00046		0.0013	0.00046	mg/L		12/13/16 10:50	12/13/16 16:08	5
Barium	<0.00049		0.0025	0.00049	mg/L		12/13/16 10:50	12/13/16 16:08	5
Beryllium	<0.00034		0.0025	0.00034	mg/L		12/13/16 10:50	12/13/16 16:08	5
Boron	<0.021		0.050	0.021	mg/L		12/13/16 10:50	12/13/16 16:08	5
Cadmium	<0.00034		0.0025	0.00034	mg/L		12/13/16 10:50	12/13/16 16:08	5
Calcium	<0.13		0.25	0.13	mg/L		12/13/16 10:50	12/13/16 16:08	5
Chromium	<0.0011		0.0025	0.0011	mg/L		12/13/16 10:50	12/13/16 16:08	5
Cobalt	<0.00040		0.0025	0.00040	mg/L		12/13/16 10:50	12/13/16 16:08	5
Lead	<0.00035		0.0013	0.00035	mg/L		12/13/16 10:50	12/13/16 16:08	5
Lithium	<0.0032		0.0050	0.0032	mg/L		12/13/16 10:50	12/13/16 16:08	5
Molybdenum	<0.00085		0.015	0.00085	mg/L		12/13/16 10:50	12/13/16 16:08	5
Selenium	<0.00024		0.0013	0.00024	mg/L		12/13/16 10:50	12/13/16 16:08	5
Thallium	<0.000085		0.00050	0.000085	mg/L		12/13/16 10:50	12/13/16 16:08	5

Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.000099	J B	0.00020	0.000070	mg/L		12/16/16 11:16	12/29/16 15:07	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	10		5.0	3.4	mg/L			12/10/16 16:29	1

Client Sample Results

Client: Southern Company
Project/Site: CCR Plant Scherer

TestAmerica Job ID: 400-131190-1
SDG: Ash Pond

Client Sample ID: SGWC-17

Lab Sample ID: 400-131190-20

Date Collected: 12/07/16 10:10

Matrix: Water

Date Received: 12/09/16 09:11

Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	8.4		1.0	0.89	mg/L			12/15/16 04:05	1
Fluoride	<0.082		0.20	0.082	mg/L			12/15/16 04:05	1
Sulfate	160		5.0	3.5	mg/L			12/16/16 15:46	5

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0010		0.0025	0.0010	mg/L		12/13/16 10:50	12/13/16 16:13	5
Arsenic	<0.00046		0.0013	0.00046	mg/L		12/13/16 10:50	12/13/16 16:13	5
Barium	0.018		0.0025	0.00049	mg/L		12/13/16 10:50	12/13/16 16:13	5
Beryllium	<0.00034		0.0025	0.00034	mg/L		12/13/16 10:50	12/13/16 16:13	5
Boron	0.40		0.050	0.021	mg/L		12/13/16 10:50	12/13/16 16:13	5
Cadmium	<0.00034		0.0025	0.00034	mg/L		12/13/16 10:50	12/13/16 16:13	5
Calcium	39		0.25	0.13	mg/L		12/13/16 10:50	12/13/16 16:13	5
Chromium	0.0027		0.0025	0.0011	mg/L		12/13/16 10:50	12/13/16 16:13	5
Cobalt	0.00056	J	0.0025	0.00040	mg/L		12/13/16 10:50	12/13/16 16:13	5
Lead	<0.00035		0.0013	0.00035	mg/L		12/13/16 10:50	12/13/16 16:13	5
Lithium	<0.0032		0.0050	0.0032	mg/L		12/13/16 10:50	12/13/16 16:13	5
Molybdenum	<0.00085		0.015	0.00085	mg/L		12/13/16 10:50	12/13/16 16:13	5
Selenium	<0.00024		0.0013	0.00024	mg/L		12/13/16 10:50	12/13/16 16:13	5
Thallium	<0.000085		0.00050	0.000085	mg/L		12/13/16 10:50	12/13/16 16:13	5

Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.00011	J B	0.00020	0.000070	mg/L		12/16/16 11:16	12/29/16 15:09	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	370		5.0	3.4	mg/L			12/10/16 16:29	1

Client Sample Results

Client: Southern Company
Project/Site: CCR Plant Scherer

TestAmerica Job ID: 400-131190-1
SDG: Ash Pond

Client Sample ID: FB-2 (AP)

Lab Sample ID: 400-131190-21

Date Collected: 12/07/16 09:50

Matrix: Water

Date Received: 12/09/16 09:11

Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<0.89		1.0	0.89	mg/L			12/15/16 04:28	1
Fluoride	<0.082		0.20	0.082	mg/L			12/15/16 04:28	1
Sulfate	<0.70		1.0	0.70	mg/L			12/15/16 04:28	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0010		0.0025	0.0010	mg/L		12/13/16 10:50	12/13/16 16:17	5
Arsenic	<0.00046		0.0013	0.00046	mg/L		12/13/16 10:50	12/13/16 16:17	5
Barium	0.0018	J	0.0025	0.00049	mg/L		12/13/16 10:50	12/13/16 16:17	5
Beryllium	<0.00034		0.0025	0.00034	mg/L		12/13/16 10:50	12/13/16 16:17	5
Boron	<0.021		0.050	0.021	mg/L		12/13/16 10:50	12/13/16 16:17	5
Cadmium	<0.00034		0.0025	0.00034	mg/L		12/13/16 10:50	12/13/16 16:17	5
Calcium	<0.13		0.25	0.13	mg/L		12/13/16 10:50	12/13/16 16:17	5
Chromium	<0.0011		0.0025	0.0011	mg/L		12/13/16 10:50	12/13/16 16:17	5
Cobalt	<0.00040		0.0025	0.00040	mg/L		12/13/16 10:50	12/13/16 16:17	5
Lead	<0.00035		0.0013	0.00035	mg/L		12/13/16 10:50	12/13/16 16:17	5
Lithium	<0.0032		0.0050	0.0032	mg/L		12/13/16 10:50	12/13/16 16:17	5
Molybdenum	<0.00085		0.015	0.00085	mg/L		12/13/16 10:50	12/13/16 16:17	5
Selenium	<0.00024		0.0013	0.00024	mg/L		12/13/16 10:50	12/13/16 16:17	5
Thallium	<0.000085		0.00050	0.000085	mg/L		12/13/16 10:50	12/13/16 16:17	5

Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.00011	J B	0.00020	0.000070	mg/L		12/16/16 11:16	12/29/16 15:10	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	<3.4		5.0	3.4	mg/L			12/10/16 16:29	1

Client Sample Results

Client: Southern Company
Project/Site: CCR Plant Scherer

TestAmerica Job ID: 400-131190-1
SDG: Ash Pond

Client Sample ID: SGWC-14

Lab Sample ID: 400-131190-22

Date Collected: 12/07/16 10:13

Matrix: Water

Date Received: 12/09/16 09:11

Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	11		1.0	0.89	mg/L			12/15/16 04:50	1
Fluoride	<0.082		0.20	0.082	mg/L			12/15/16 04:50	1
Sulfate	200		5.0	3.5	mg/L			12/15/16 21:04	5

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0010		0.0025	0.0010	mg/L		12/13/16 10:50	12/13/16 16:22	5
Arsenic	<0.00046		0.0013	0.00046	mg/L		12/13/16 10:50	12/13/16 16:22	5
Barium	0.063		0.0025	0.00049	mg/L		12/13/16 10:50	12/13/16 16:22	5
Beryllium	<0.00034		0.0025	0.00034	mg/L		12/13/16 10:50	12/13/16 16:22	5
Boron	1.5		0.050	0.021	mg/L		12/13/16 10:50	12/13/16 16:22	5
Cadmium	<0.00034		0.0025	0.00034	mg/L		12/13/16 10:50	12/13/16 16:22	5
Calcium	38		0.25	0.13	mg/L		12/13/16 10:50	12/13/16 16:22	5
Chromium	0.0012	J	0.0025	0.0011	mg/L		12/13/16 10:50	12/13/16 16:22	5
Cobalt	0.0043		0.0025	0.00040	mg/L		12/13/16 10:50	12/13/16 16:22	5
Lead	<0.00035		0.0013	0.00035	mg/L		12/13/16 10:50	12/13/16 16:22	5
Lithium	<0.0032		0.0050	0.0032	mg/L		12/13/16 10:50	12/13/16 16:22	5
Molybdenum	<0.00085		0.015	0.00085	mg/L		12/13/16 10:50	12/13/16 16:22	5
Selenium	<0.00024		0.0013	0.00024	mg/L		12/13/16 10:50	12/13/16 16:22	5
Thallium	<0.000085		0.00050	0.000085	mg/L		12/13/16 10:50	12/13/16 16:22	5

Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.00012	J B	0.00020	0.000070	mg/L		12/16/16 11:16	12/29/16 15:11	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	340		5.0	3.4	mg/L			12/10/16 16:29	1

Client Sample Results

Client: Southern Company
Project/Site: CCR Plant Scherer

TestAmerica Job ID: 400-131190-1
SDG: Ash Pond

Client Sample ID: SGWC-22

Lab Sample ID: 400-131190-23

Date Collected: 12/07/16 10:56

Matrix: Water

Date Received: 12/09/16 09:11

Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	10		1.0	0.89	mg/L			12/15/16 05:13	1
Fluoride	<0.082		0.20	0.082	mg/L			12/15/16 05:13	1
Sulfate	85		5.0	3.5	mg/L			12/15/16 21:27	5

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0010		0.0025	0.0010	mg/L		12/13/16 10:50	12/13/16 16:26	5
Arsenic	<0.00046		0.0013	0.00046	mg/L		12/13/16 10:50	12/13/16 16:26	5
Barium	0.090		0.0025	0.00049	mg/L		12/13/16 10:50	12/13/16 16:26	5
Beryllium	<0.00034		0.0025	0.00034	mg/L		12/13/16 10:50	12/13/16 16:26	5
Boron	0.36		0.050	0.021	mg/L		12/13/16 10:50	12/13/16 16:26	5
Cadmium	<0.00034		0.0025	0.00034	mg/L		12/13/16 10:50	12/13/16 16:26	5
Calcium	23		0.25	0.13	mg/L		12/13/16 10:50	12/13/16 16:26	5
Chromium	<0.0011		0.0025	0.0011	mg/L		12/13/16 10:50	12/13/16 16:26	5
Cobalt	0.0034		0.0025	0.00040	mg/L		12/13/16 10:50	12/13/16 16:26	5
Lead	<0.00035		0.0013	0.00035	mg/L		12/13/16 10:50	12/13/16 16:26	5
Lithium	<0.0032		0.0050	0.0032	mg/L		12/13/16 10:50	12/13/16 16:26	5
Molybdenum	<0.00085		0.015	0.00085	mg/L		12/13/16 10:50	12/13/16 16:26	5
Selenium	<0.00024		0.0013	0.00024	mg/L		12/13/16 10:50	12/13/16 16:26	5
Thallium	<0.000085		0.00050	0.000085	mg/L		12/13/16 10:50	12/13/16 16:26	5

Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.000099	J B	0.00020	0.000070	mg/L		12/16/16 11:16	12/29/16 15:12	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	230		5.0	3.4	mg/L			12/10/16 16:29	1

Client Sample Results

Client: Southern Company
Project/Site: CCR Plant Scherer

TestAmerica Job ID: 400-131190-1
SDG: Ash Pond

Client Sample ID: FB-3 (AP)

Date Collected: 12/07/16 11:00

Date Received: 12/09/16 09:11

Lab Sample ID: 400-131190-24

Matrix: Water

Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<0.89		1.0	0.89	mg/L			12/15/16 06:22	1
Fluoride	<0.082		0.20	0.082	mg/L			12/15/16 06:22	1
Sulfate	<0.70		1.0	0.70	mg/L			12/15/16 06:22	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0010		0.0025	0.0010	mg/L		12/13/16 10:50	12/13/16 16:31	5
Arsenic	<0.00046		0.0013	0.00046	mg/L		12/13/16 10:50	12/13/16 16:31	5
Barium	<0.00049		0.0025	0.00049	mg/L		12/13/16 10:50	12/13/16 16:31	5
Beryllium	<0.00034		0.0025	0.00034	mg/L		12/13/16 10:50	12/13/16 16:31	5
Boron	<0.021		0.050	0.021	mg/L		12/13/16 10:50	12/13/16 16:31	5
Cadmium	<0.00034		0.0025	0.00034	mg/L		12/13/16 10:50	12/13/16 16:31	5
Calcium	<0.13		0.25	0.13	mg/L		12/13/16 10:50	12/13/16 16:31	5
Chromium	<0.0011		0.0025	0.0011	mg/L		12/13/16 10:50	12/13/16 16:31	5
Cobalt	<0.00040		0.0025	0.00040	mg/L		12/13/16 10:50	12/13/16 16:31	5
Lead	<0.00035		0.0013	0.00035	mg/L		12/13/16 10:50	12/13/16 16:31	5
Lithium	<0.0032		0.0050	0.0032	mg/L		12/13/16 10:50	12/13/16 16:31	5
Molybdenum	<0.00085		0.015	0.00085	mg/L		12/13/16 10:50	12/13/16 16:31	5
Selenium	<0.00024		0.0013	0.00024	mg/L		12/13/16 10:50	12/13/16 16:31	5
Thallium	<0.000085		0.00050	0.000085	mg/L		12/13/16 10:50	12/13/16 16:31	5

Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.00012	J B	0.00020	0.000070	mg/L		12/16/16 11:16	12/29/16 15:24	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	<3.4		5.0	3.4	mg/L			12/10/16 16:29	1

Client Sample Results

Client: Southern Company
Project/Site: CCR Plant Scherer

TestAmerica Job ID: 400-131190-1
SDG: Ash Pond

Client Sample ID: SGWC-21

Lab Sample ID: 400-131190-25

Date Collected: 12/07/16 11:56

Matrix: Water

Date Received: 12/09/16 09:11

Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	7.7		1.0	0.89	mg/L			12/15/16 06:45	1
Fluoride	<0.082		0.20	0.082	mg/L			12/15/16 06:45	1
Sulfate	80		5.0	3.5	mg/L			12/15/16 21:50	5

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0010		0.0025	0.0010	mg/L		12/14/16 08:30	12/14/16 16:47	5
Arsenic	<0.00046		0.0013	0.00046	mg/L		12/14/16 08:30	12/14/16 16:47	5
Barium	0.096		0.0025	0.00049	mg/L		12/14/16 08:30	12/14/16 16:47	5
Beryllium	<0.00034		0.0025	0.00034	mg/L		12/14/16 08:30	12/14/16 16:47	5
Cadmium	<0.00034		0.0025	0.00034	mg/L		12/14/16 08:30	12/14/16 16:47	5
Calcium	29		0.25	0.13	mg/L		12/14/16 08:30	12/14/16 16:47	5
Chromium	<0.0011		0.0025	0.0011	mg/L		12/14/16 08:30	12/14/16 16:47	5
Cobalt	<0.00040		0.0025	0.00040	mg/L		12/14/16 08:30	12/14/16 16:47	5
Lead	<0.00035		0.0013	0.00035	mg/L		12/14/16 08:30	12/14/16 16:47	5
Lithium	<0.0032		0.0050	0.0032	mg/L		12/14/16 08:30	12/14/16 16:47	5
Molybdenum	<0.00085		0.015	0.00085	mg/L		12/14/16 08:30	12/14/16 16:47	5
Selenium	<0.00024		0.0013	0.00024	mg/L		12/14/16 08:30	12/14/16 16:47	5
Thallium	<0.000085		0.00050	0.000085	mg/L		12/14/16 08:30	12/14/16 16:47	5

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Boron	1.3		0.50	0.21	mg/L		12/14/16 08:30	12/14/16 15:58	50

Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.00010	J B	0.00020	0.000070	mg/L		12/16/16 11:16	12/29/16 15:25	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	310		5.0	3.4	mg/L			12/10/16 16:29	1

Client Sample Results

Client: Southern Company
Project/Site: CCR Plant Scherer

TestAmerica Job ID: 400-131190-1
SDG: Ash Pond

Client Sample ID: SGWC-15

Lab Sample ID: 400-131190-26

Date Collected: 12/07/16 11:57

Matrix: Water

Date Received: 12/09/16 09:11

Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	9.8		1.0	0.89	mg/L			12/15/16 07:07	1
Fluoride	0.13	J	0.20	0.082	mg/L			12/15/16 07:07	1
Sulfate	200		5.0	3.5	mg/L			12/15/16 23:21	5

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0010		0.0025	0.0010	mg/L		12/14/16 08:30	12/14/16 16:52	5
Arsenic	0.00079	J	0.0013	0.00046	mg/L		12/14/16 08:30	12/14/16 16:52	5
Barium	0.042		0.0025	0.00049	mg/L		12/14/16 08:30	12/14/16 16:52	5
Beryllium	<0.00034		0.0025	0.00034	mg/L		12/14/16 08:30	12/14/16 16:52	5
Cadmium	<0.00034		0.0025	0.00034	mg/L		12/14/16 08:30	12/14/16 16:52	5
Calcium	15		0.25	0.13	mg/L		12/14/16 08:30	12/14/16 16:52	5
Chromium	0.032		0.0025	0.0011	mg/L		12/14/16 08:30	12/14/16 16:52	5
Cobalt	0.26		0.0025	0.00040	mg/L		12/14/16 08:30	12/14/16 16:52	5
Lead	<0.00035		0.0013	0.00035	mg/L		12/14/16 08:30	12/14/16 16:52	5
Lithium	<0.0032		0.0050	0.0032	mg/L		12/14/16 08:30	12/14/16 16:52	5
Molybdenum	<0.00085		0.015	0.00085	mg/L		12/14/16 08:30	12/14/16 16:52	5
Selenium	0.00070	J	0.0013	0.00024	mg/L		12/14/16 08:30	12/14/16 16:52	5
Thallium	<0.00085		0.00050	0.000085	mg/L		12/14/16 08:30	12/14/16 16:52	5

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Boron	1.5		0.50	0.21	mg/L		12/14/16 08:30	12/14/16 16:02	50

Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.00017	J B	0.00020	0.000070	mg/L		12/16/16 11:16	12/29/16 15:26	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	270		5.0	3.4	mg/L			12/12/16 13:46	1

Client Sample Results

Client: Southern Company
Project/Site: CCR Plant Scherer

TestAmerica Job ID: 400-131190-1
SDG: Ash Pond

Client Sample ID: SGWC-16

Lab Sample ID: 400-131190-27

Date Collected: 12/07/16 15:20

Matrix: Water

Date Received: 12/09/16 09:11

Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	8.0		1.0	0.89	mg/L			12/15/16 07:53	1
Fluoride	<0.082		0.20	0.082	mg/L			12/15/16 07:53	1
Sulfate	17		1.0	0.70	mg/L			12/15/16 07:53	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0010		0.0025	0.0010	mg/L		12/14/16 08:30	12/14/16 16:56	5
Arsenic	<0.00046		0.0013	0.00046	mg/L		12/14/16 08:30	12/14/16 16:56	5
Barium	0.017		0.0025	0.00049	mg/L		12/14/16 08:30	12/14/16 16:56	5
Beryllium	<0.00034		0.0025	0.00034	mg/L		12/14/16 08:30	12/14/16 16:56	5
Boron	0.56		0.050	0.021	mg/L		12/14/16 08:30	12/14/16 16:56	5
Cadmium	<0.00034		0.0025	0.00034	mg/L		12/14/16 08:30	12/14/16 16:56	5
Calcium	0.73		0.25	0.13	mg/L		12/14/16 08:30	12/14/16 16:56	5
Chromium	0.0079		0.0025	0.0011	mg/L		12/14/16 08:30	12/14/16 16:56	5
Cobalt	0.0030		0.0025	0.00040	mg/L		12/14/16 08:30	12/14/16 16:56	5
Lead	<0.00035		0.0013	0.00035	mg/L		12/14/16 08:30	12/14/16 16:56	5
Lithium	<0.0032		0.0050	0.0032	mg/L		12/14/16 08:30	12/14/16 16:56	5
Molybdenum	<0.00085		0.015	0.00085	mg/L		12/14/16 08:30	12/14/16 16:56	5
Selenium	<0.00024		0.0013	0.00024	mg/L		12/14/16 08:30	12/14/16 16:56	5
Thallium	<0.000085		0.00050	0.000085	mg/L		12/14/16 08:30	12/14/16 16:56	5

Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.000076	J B	0.00020	0.000070	mg/L		12/16/16 11:16	12/29/16 15:28	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	64		5.0	3.4	mg/L			12/12/16 13:46	1

Client Sample Results

Client: Southern Company
Project/Site: CCR Plant Scherer

TestAmerica Job ID: 400-131190-1
SDG: Ash Pond

Client Sample ID: SGWC-9

Lab Sample ID: 400-131190-28

Date Collected: 12/07/16 15:16

Matrix: Water

Date Received: 12/09/16 09:11

Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	11		1.0	0.89	mg/L			12/15/16 08:16	1
Fluoride	<0.082		0.20	0.082	mg/L			12/15/16 08:16	1
Sulfate	280		10	7.0	mg/L			12/15/16 23:44	10

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0010		0.0025	0.0010	mg/L		12/14/16 08:30	12/14/16 17:01	5
Arsenic	0.00079	J	0.0013	0.00046	mg/L		12/14/16 08:30	12/14/16 17:01	5
Barium	0.048		0.0025	0.00049	mg/L		12/14/16 08:30	12/14/16 17:01	5
Beryllium	<0.00034		0.0025	0.00034	mg/L		12/14/16 08:30	12/14/16 17:01	5
Cadmium	<0.00034		0.0025	0.00034	mg/L		12/14/16 08:30	12/14/16 17:01	5
Calcium	47		0.25	0.13	mg/L		12/14/16 08:30	12/14/16 17:01	5
Chromium	<0.0011		0.0025	0.0011	mg/L		12/14/16 08:30	12/14/16 17:01	5
Cobalt	0.014		0.0025	0.00040	mg/L		12/14/16 08:30	12/14/16 17:01	5
Lead	<0.00035		0.0013	0.00035	mg/L		12/14/16 08:30	12/14/16 17:01	5
Lithium	<0.0032		0.0050	0.0032	mg/L		12/14/16 08:30	12/14/16 17:01	5
Molybdenum	0.0010	J	0.015	0.00085	mg/L		12/14/16 08:30	12/14/16 17:01	5
Selenium	<0.00024		0.0013	0.00024	mg/L		12/14/16 08:30	12/14/16 17:01	5
Thallium	<0.000085		0.00050	0.000085	mg/L		12/14/16 08:30	12/14/16 17:01	5

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Boron	1.6		0.50	0.21	mg/L		12/14/16 08:30	12/14/16 16:07	50

Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.00010	J B	0.00020	0.000070	mg/L		12/16/16 11:16	12/29/16 15:29	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	510		5.0	3.4	mg/L			12/12/16 13:46	1

Client Sample Results

Client: Southern Company
Project/Site: CCR Plant Scherer

TestAmerica Job ID: 400-131190-1
SDG: Ash Pond

Client Sample ID: SGWC-18

Lab Sample ID: 400-131190-29

Date Collected: 12/07/16 11:35

Matrix: Water

Date Received: 12/09/16 09:11

Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	5.6		1.0	0.89	mg/L			12/15/16 08:39	1
Fluoride	<0.082		0.20	0.082	mg/L			12/15/16 08:39	1
Sulfate	510		20	14	mg/L			12/16/16 00:07	20

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0010		0.0025	0.0010	mg/L		12/14/16 08:30	12/14/16 17:05	5
Arsenic	0.0012	J	0.0013	0.00046	mg/L		12/14/16 08:30	12/14/16 17:05	5
Barium	0.015		0.0025	0.00049	mg/L		12/14/16 08:30	12/14/16 17:05	5
Beryllium	<0.00034		0.0025	0.00034	mg/L		12/14/16 08:30	12/14/16 17:05	5
Cadmium	<0.00034		0.0025	0.00034	mg/L		12/14/16 08:30	12/14/16 17:05	5
Calcium	50		0.25	0.13	mg/L		12/14/16 08:30	12/14/16 17:05	5
Chromium	0.0063		0.0025	0.0011	mg/L		12/14/16 08:30	12/14/16 17:05	5
Cobalt	0.11		0.0025	0.00040	mg/L		12/14/16 08:30	12/14/16 17:05	5
Lead	<0.00035		0.0013	0.00035	mg/L		12/14/16 08:30	12/14/16 17:05	5
Lithium	<0.0032		0.0050	0.0032	mg/L		12/14/16 08:30	12/14/16 17:05	5
Molybdenum	<0.00085		0.015	0.00085	mg/L		12/14/16 08:30	12/14/16 17:05	5
Selenium	0.0060		0.0013	0.00024	mg/L		12/14/16 08:30	12/14/16 17:05	5
Thallium	0.000095	J	0.00050	0.000085	mg/L		12/14/16 08:30	12/14/16 17:05	5

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Boron	4.8		0.50	0.21	mg/L		12/14/16 08:30	12/14/16 16:34	50

Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.00014	J B	0.00020	0.000070	mg/L		12/16/16 12:09	12/29/16 13:22	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	720		5.0	3.4	mg/L			12/12/16 13:46	1

Definitions/Glossary

Client: Southern Company
Project/Site: CCR Plant Scherer

TestAmerica Job ID: 400-131190-1
SDG: Ash Pond

Qualifiers

HPLC/IC

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.
E	Result exceeded calibration range.
*	LCS or LCSD is outside acceptance limits.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
F1	MS and/or MSD Recovery is outside acceptance limits.

Metals

Qualifier	Qualifier Description
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.
F1	MS and/or MSD Recovery is outside acceptance limits.
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.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
α	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CNF	Contains no Free Liquid
DER	Duplicate error ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision level concentration
MDA	Minimum detectable activity
EDL	Estimated Detection Limit
MDC	Minimum detectable concentration
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
NC	Not Calculated
ND	Not detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RER	Relative error ratio
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)

Lab Chronicle

Client: Southern Company
Project/Site: CCR Plant Scherer

TestAmerica Job ID: 400-131190-1
SDG: Ash Pond

Client Sample ID: SGWA-24

Date Collected: 12/05/16 15:13

Date Received: 12/07/16 09:08

Lab Sample ID: 400-131190-1

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	300.0		1	334961	12/14/16 02:54	TAJ	TAL PEN
Total Recoverable	Prep	3005A			334667	12/13/16 11:25	RJB	TAL PEN
Total Recoverable	Analysis	6020		5	335038	12/14/16 12:23	AJR	TAL PEN
Total/NA	Prep	7470A			335122	12/16/16 11:16	JAP	TAL PEN
Total/NA	Analysis	7470A		1	336945	12/29/16 16:27	JAP	TAL PEN
Total/NA	Analysis	SM 2540C		1	334531	12/11/16 14:35	RRC	TAL PEN

Client Sample ID: FD-1 (AP)

Date Collected: 12/05/16 00:00

Date Received: 12/07/16 09:08

Lab Sample ID: 400-131190-2

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	300.0		1	334961	12/14/16 03:17	TAJ	TAL PEN
Total Recoverable	Prep	3005A			334667	12/13/16 11:25	RJB	TAL PEN
Total Recoverable	Analysis	6020		5	335038	12/14/16 12:28	AJR	TAL PEN
Total/NA	Prep	7470A			335122	12/16/16 11:16	JAP	TAL PEN
Total/NA	Analysis	7470A		1	336945	12/29/16 16:28	JAP	TAL PEN
Total/NA	Analysis	SM 2540C		1	334531	12/11/16 14:35	RRC	TAL PEN

Client Sample ID: SGWA-5

Date Collected: 12/06/16 10:30

Date Received: 12/08/16 10:26

Lab Sample ID: 400-131190-3

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	300.0		1	334961	12/14/16 03:40	TAJ	TAL PEN
Total Recoverable	Prep	3005A			334667	12/13/16 11:25	RJB	TAL PEN
Total Recoverable	Analysis	6020		5	335038	12/14/16 12:32	AJR	TAL PEN
Total/NA	Prep	7470A			335122	12/16/16 11:16	JAP	TAL PEN
Total/NA	Analysis	7470A		1	336945	12/29/16 16:29	JAP	TAL PEN
Total/NA	Analysis	SM 2540C		1	334496	12/10/16 15:53	TET	TAL PEN

Client Sample ID: FD-2 (AP)

Date Collected: 12/06/16 00:00

Date Received: 12/08/16 10:26

Lab Sample ID: 400-131190-4

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	300.0		1	334961	12/14/16 04:03	TAJ	TAL PEN
Total Recoverable	Prep	3005A			334667	12/13/16 11:25	RJB	TAL PEN
Total Recoverable	Analysis	6020		5	335038	12/14/16 12:37	AJR	TAL PEN
Total/NA	Prep	7470A			335122	12/16/16 11:16	JAP	TAL PEN
Total/NA	Analysis	7470A		1	336945	12/29/16 16:31	JAP	TAL PEN
Total/NA	Analysis	SM 2540C		1	334531	12/11/16 14:35	RRC	TAL PEN

TestAmerica Pensacola

Lab Chronicle

Client: Southern Company
Project/Site: CCR Plant Scherer

TestAmerica Job ID: 400-131190-1
SDG: Ash Pond

Client Sample ID: SGWA-1

Date Collected: 12/06/16 10:53

Date Received: 12/08/16 10:26

Lab Sample ID: 400-131190-5

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	300.0		1	334961	12/14/16 04:25	TAJ	TAL PEN
Total Recoverable	Prep	3005A			334667	12/13/16 11:25	RJB	TAL PEN
Total Recoverable	Analysis	6020		5	335038	12/14/16 12:41	AJR	TAL PEN
Total/NA	Prep	7470A			335122	12/16/16 11:16	JAP	TAL PEN
Total/NA	Analysis	7470A		1	336945	12/29/16 16:32	JAP	TAL PEN
Total/NA	Analysis	SM 2540C		1	334496	12/10/16 15:53	TET	TAL PEN

Client Sample ID: SGWC-7

Date Collected: 12/06/16 12:01

Date Received: 12/08/16 10:26

Lab Sample ID: 400-131190-6

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	300.0		1	334961	12/14/16 04:48	TAJ	TAL PEN
Total/NA	Analysis	300.0		1	334998	12/14/16 15:32	TAJ	TAL PEN
Total Recoverable	Prep	3005A			334667	12/13/16 11:25	RJB	TAL PEN
Total Recoverable	Analysis	6020		5	335038	12/14/16 12:46	AJR	TAL PEN
Total/NA	Prep	7470A			335122	12/16/16 11:16	JAP	TAL PEN
Total/NA	Analysis	7470A		1	336945	12/29/16 16:33	JAP	TAL PEN
Total/NA	Analysis	SM 2540C		1	334496	12/10/16 15:53	TET	TAL PEN

Client Sample ID: SGWA-2

Date Collected: 12/06/16 12:09

Date Received: 12/08/16 10:26

Lab Sample ID: 400-131190-7

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	300.0		1	334961	12/14/16 05:57	TAJ	TAL PEN
Total Recoverable	Prep	3005A			334667	12/13/16 11:25	RJB	TAL PEN
Total Recoverable	Analysis	6020		5	335038	12/14/16 12:50	AJR	TAL PEN
Total/NA	Prep	7470A			335122	12/16/16 11:16	JAP	TAL PEN
Total/NA	Analysis	7470A		1	336945	12/29/16 16:34	JAP	TAL PEN
Total/NA	Analysis	SM 2540C		1	334496	12/10/16 15:53	TET	TAL PEN

Client Sample ID: SGWA-25

Date Collected: 12/06/16 13:00

Date Received: 12/08/16 10:26

Lab Sample ID: 400-131190-8

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	300.0		1	334998	12/14/16 20:05	TAJ	TAL PEN
Total Recoverable	Prep	3005A			334668	12/13/16 10:50	RJB	TAL PEN
Total Recoverable	Analysis	6020		5	334816	12/13/16 14:56	AJR	TAL PEN
Total/NA	Prep	7470A			335122	12/16/16 11:16	JAP	TAL PEN
Total/NA	Analysis	7470A		1	336945	12/29/16 16:36	JAP	TAL PEN

TestAmerica Pensacola

Lab Chronicle

Client: Southern Company
Project/Site: CCR Plant Scherer

TestAmerica Job ID: 400-131190-1
SDG: Ash Pond

Client Sample ID: SGWA-25

Lab Sample ID: 400-131190-8

Date Collected: 12/06/16 13:00

Matrix: Water

Date Received: 12/08/16 10:26

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	SM 2540C		1	334496	12/10/16 15:53	TET	TAL PEN

Client Sample ID: SGWA-3

Lab Sample ID: 400-131190-9

Date Collected: 12/06/16 13:10

Matrix: Water

Date Received: 12/08/16 10:26

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	300.0		1	334998	12/14/16 21:14	TAJ	TAL PEN
Total Recoverable	Prep	3005A			334668	12/13/16 10:50	RJB	TAL PEN
Total Recoverable	Analysis	6020		5	334816	12/13/16 15:01	AJR	TAL PEN
Total/NA	Prep	7470A			335134	12/16/16 11:16	JAP	TAL PEN
Total/NA	Analysis	7470A		1	336945	12/29/16 14:42	JAP	TAL PEN
Total/NA	Analysis	SM 2540C		1	334496	12/10/16 15:53	TET	TAL PEN

Client Sample ID: SGWC-8

Lab Sample ID: 400-131190-10

Date Collected: 12/06/16 13:07

Matrix: Water

Date Received: 12/08/16 10:26

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	300.0		1	334998	12/14/16 21:37	TAJ	TAL PEN
Total/NA	Analysis	300.0		5	335192	12/15/16 19:56	TAJ	TAL PEN
Total Recoverable	Prep	3005A			334668	12/13/16 10:50	RJB	TAL PEN
Total Recoverable	Analysis	6020		5	334816	12/13/16 15:05	AJR	TAL PEN
Total/NA	Prep	7470A			335134	12/16/16 11:16	JAP	TAL PEN
Total/NA	Analysis	7470A		1	336945	12/29/16 14:48	JAP	TAL PEN
Total/NA	Analysis	SM 2540C		1	334496	12/10/16 15:53	TET	TAL PEN

Client Sample ID: SGWC-11

Lab Sample ID: 400-131190-11

Date Collected: 12/06/16 14:23

Matrix: Water

Date Received: 12/08/16 10:26

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	300.0		1	334998	12/14/16 22:00	TAJ	TAL PEN
Total Recoverable	Prep	3005A			334668	12/13/16 10:50	RJB	TAL PEN
Total Recoverable	Analysis	6020		5	334816	12/13/16 15:10	AJR	TAL PEN
Total/NA	Prep	7470A			335134	12/16/16 11:16	JAP	TAL PEN
Total/NA	Analysis	7470A		1	336945	12/29/16 14:50	JAP	TAL PEN
Total/NA	Analysis	SM 2540C		1	334496	12/10/16 15:53	TET	TAL PEN

Lab Chronicle

Client: Southern Company
Project/Site: CCR Plant Scherer

TestAmerica Job ID: 400-131190-1
SDG: Ash Pond

Client Sample ID: SGWC-12

Lab Sample ID: 400-131190-12

Date Collected: 12/06/16 15:11

Matrix: Water

Date Received: 12/08/16 10:26

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	300.0		1	334998	12/14/16 22:22	TAJ	TAL PEN
Total Recoverable	Prep	3005A			334668	12/13/16 10:50	RJB	TAL PEN
Total Recoverable	Analysis	6020		5	334816	12/13/16 15:14	AJR	TAL PEN
Total/NA	Prep	7470A			335134	12/16/16 11:16	JAP	TAL PEN
Total/NA	Analysis	7470A		1	336945	12/29/16 14:51	JAP	TAL PEN
Total/NA	Analysis	SM 2540C		1	334496	12/10/16 15:53	TET	TAL PEN

Client Sample ID: FD-3 (AP)

Lab Sample ID: 400-131190-13

Date Collected: 12/06/16 00:00

Matrix: Water

Date Received: 12/08/16 10:26

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	300.0		1	334998	12/14/16 22:45	TAJ	TAL PEN
Total Recoverable	Prep	3005A			334668	12/13/16 10:50	RJB	TAL PEN
Total Recoverable	Analysis	6020		5	334816	12/13/16 15:19	AJR	TAL PEN
Total/NA	Prep	7470A			335134	12/16/16 11:16	JAP	TAL PEN
Total/NA	Analysis	7470A		1	336945	12/29/16 14:52	JAP	TAL PEN
Total/NA	Analysis	SM 2540C		1	334531	12/11/16 14:35	RRC	TAL PEN

Client Sample ID: SGWC-10

Lab Sample ID: 400-131190-14

Date Collected: 12/06/16 15:01

Matrix: Water

Date Received: 12/08/16 10:26

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	300.0		1	334998	12/14/16 23:08	TAJ	TAL PEN
Total Recoverable	Prep	3005A			334668	12/13/16 10:50	RJB	TAL PEN
Total Recoverable	Analysis	6020		5	334816	12/13/16 15:23	AJR	TAL PEN
Total/NA	Prep	7470A			335134	12/16/16 11:16	JAP	TAL PEN
Total/NA	Analysis	7470A		1	336945	12/29/16 15:01	JAP	TAL PEN
Total/NA	Analysis	SM 2540C		1	334496	12/10/16 15:53	TET	TAL PEN

Client Sample ID: SGWA-4

Lab Sample ID: 400-131190-15

Date Collected: 12/06/16 14:25

Matrix: Water

Date Received: 12/08/16 10:26

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	300.0		1	334998	12/14/16 23:31	TAJ	TAL PEN
Total Recoverable	Prep	3005A			334668	12/13/16 10:50	RJB	TAL PEN
Total Recoverable	Analysis	6020		5	334816	12/13/16 15:28	AJR	TAL PEN
Total/NA	Prep	7470A			335134	12/16/16 11:16	JAP	TAL PEN
Total/NA	Analysis	7470A		1	336945	12/29/16 15:03	JAP	TAL PEN
Total/NA	Analysis	SM 2540C		1	334497	12/10/16 16:29	TET	TAL PEN

TestAmerica Pensacola

Lab Chronicle

Client: Southern Company
Project/Site: CCR Plant Scherer

TestAmerica Job ID: 400-131190-1
SDG: Ash Pond

Client Sample ID: SGWC-6

Lab Sample ID: 400-131190-16

Date Collected: 12/06/16 16:18

Matrix: Water

Date Received: 12/08/16 10:26

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	300.0		1	335133	12/15/16 01:48	TAJ	TAL PEN
Total Recoverable	Prep	3005A			334668	12/13/16 10:50	RJB	TAL PEN
Total Recoverable	Analysis	6020		5	334816	12/13/16 15:32	AJR	TAL PEN
Total/NA	Prep	7470A			335134	12/16/16 11:16	JAP	TAL PEN
Total/NA	Analysis	7470A		1	336945	12/29/16 15:04	JAP	TAL PEN
Total/NA	Analysis	SM 2540C		1	334497	12/10/16 16:29	TET	TAL PEN

Client Sample ID: SGWC-13

Lab Sample ID: 400-131190-17

Date Collected: 12/06/16 16:00

Matrix: Water

Date Received: 12/08/16 10:26

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	300.0		1	335133	12/15/16 02:56	TAJ	TAL PEN
Total/NA	Analysis	300.0		5	335192	12/15/16 20:19	TAJ	TAL PEN
Total Recoverable	Prep	3005A			334668	12/13/16 10:50	RJB	TAL PEN
Total Recoverable	Analysis	6020		5	334816	12/13/16 15:37	AJR	TAL PEN
Total/NA	Prep	7470A			335134	12/16/16 11:16	JAP	TAL PEN
Total/NA	Analysis	7470A		1	336945	12/29/16 15:05	JAP	TAL PEN
Total/NA	Analysis	SM 2540C		1	334497	12/10/16 16:29	TET	TAL PEN

Client Sample ID: SGWC-23

Lab Sample ID: 400-131190-18

Date Collected: 12/07/16 10:08

Matrix: Water

Date Received: 12/09/16 09:11

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	300.0		1	335133	12/15/16 03:19	TAJ	TAL PEN
Total/NA	Analysis	300.0		5	335192	12/15/16 20:41	TAJ	TAL PEN
Total Recoverable	Prep	3005A			334668	12/13/16 10:50	RJB	TAL PEN
Total Recoverable	Analysis	6020		5	334816	12/13/16 16:04	AJR	TAL PEN
Total/NA	Prep	7470A			335134	12/16/16 11:16	JAP	TAL PEN
Total/NA	Analysis	7470A		1	336945	12/29/16 15:06	JAP	TAL PEN
Total/NA	Analysis	SM 2540C		1	334497	12/10/16 16:29	TET	TAL PEN

Client Sample ID: FB-1 (AP)

Lab Sample ID: 400-131190-19

Date Collected: 12/07/16 10:05

Matrix: Water

Date Received: 12/09/16 09:11

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	300.0		1	335133	12/15/16 03:42	TAJ	TAL PEN
Total Recoverable	Prep	3005A			334668	12/13/16 10:50	RJB	TAL PEN
Total Recoverable	Analysis	6020		5	334816	12/13/16 16:08	AJR	TAL PEN
Total/NA	Prep	7470A			335134	12/16/16 11:16	JAP	TAL PEN

TestAmerica Pensacola

Lab Chronicle

Client: Southern Company
Project/Site: CCR Plant Scherer

TestAmerica Job ID: 400-131190-1
SDG: Ash Pond

Client Sample ID: FB-1 (AP)

Lab Sample ID: 400-131190-19

Date Collected: 12/07/16 10:05

Matrix: Water

Date Received: 12/09/16 09:11

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	7470A		1	336945	12/29/16 15:07	JAP	TAL PEN
Total/NA	Analysis	SM 2540C		1	334497	12/10/16 16:29	TET	TAL PEN

Client Sample ID: SGWC-17

Lab Sample ID: 400-131190-20

Date Collected: 12/07/16 10:10

Matrix: Water

Date Received: 12/09/16 09:11

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	300.0		1	335133	12/15/16 04:05	TAJ	TAL PEN
Total/NA	Analysis	300.0		5	335374	12/16/16 15:46	TAJ	TAL PEN
Total Recoverable	Prep	3005A			334668	12/13/16 10:50	RJB	TAL PEN
Total Recoverable	Analysis	6020		5	334816	12/13/16 16:13	AJR	TAL PEN
Total/NA	Prep	7470A			335134	12/16/16 11:16	JAP	TAL PEN
Total/NA	Analysis	7470A		1	336945	12/29/16 15:09	JAP	TAL PEN
Total/NA	Analysis	SM 2540C		1	334497	12/10/16 16:29	TET	TAL PEN

Client Sample ID: FB-2 (AP)

Lab Sample ID: 400-131190-21

Date Collected: 12/07/16 09:50

Matrix: Water

Date Received: 12/09/16 09:11

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	300.0		1	335133	12/15/16 04:28	TAJ	TAL PEN
Total Recoverable	Prep	3005A			334668	12/13/16 10:50	RJB	TAL PEN
Total Recoverable	Analysis	6020		5	334816	12/13/16 16:17	AJR	TAL PEN
Total/NA	Prep	7470A			335134	12/16/16 11:16	JAP	TAL PEN
Total/NA	Analysis	7470A		1	336945	12/29/16 15:10	JAP	TAL PEN
Total/NA	Analysis	SM 2540C		1	334497	12/10/16 16:29	TET	TAL PEN

Client Sample ID: SGWC-14

Lab Sample ID: 400-131190-22

Date Collected: 12/07/16 10:13

Matrix: Water

Date Received: 12/09/16 09:11

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	300.0		1	335133	12/15/16 04:50	TAJ	TAL PEN
Total/NA	Analysis	300.0		5	335192	12/15/16 21:04	TAJ	TAL PEN
Total Recoverable	Prep	3005A			334668	12/13/16 10:50	RJB	TAL PEN
Total Recoverable	Analysis	6020		5	334816	12/13/16 16:22	AJR	TAL PEN
Total/NA	Prep	7470A			335134	12/16/16 11:16	JAP	TAL PEN
Total/NA	Analysis	7470A		1	336945	12/29/16 15:11	JAP	TAL PEN
Total/NA	Analysis	SM 2540C		1	334497	12/10/16 16:29	TET	TAL PEN

Lab Chronicle

Client: Southern Company
Project/Site: CCR Plant Scherer

TestAmerica Job ID: 400-131190-1
SDG: Ash Pond

Client Sample ID: SGWC-22

Lab Sample ID: 400-131190-23

Date Collected: 12/07/16 10:56

Matrix: Water

Date Received: 12/09/16 09:11

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	300.0		1	335133	12/15/16 05:13	TAJ	TAL PEN
Total/NA	Analysis	300.0		5	335192	12/15/16 21:27	TAJ	TAL PEN
Total Recoverable	Prep	3005A			334668	12/13/16 10:50	RJB	TAL PEN
Total Recoverable	Analysis	6020		5	334816	12/13/16 16:26	AJR	TAL PEN
Total/NA	Prep	7470A			335134	12/16/16 11:16	JAP	TAL PEN
Total/NA	Analysis	7470A		1	336945	12/29/16 15:12	JAP	TAL PEN
Total/NA	Analysis	SM 2540C		1	334497	12/10/16 16:29	TET	TAL PEN

Client Sample ID: FB-3 (AP)

Lab Sample ID: 400-131190-24

Date Collected: 12/07/16 11:00

Matrix: Water

Date Received: 12/09/16 09:11

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	300.0		1	335133	12/15/16 06:22	TAJ	TAL PEN
Total Recoverable	Prep	3005A			334668	12/13/16 10:50	RJB	TAL PEN
Total Recoverable	Analysis	6020		5	334816	12/13/16 16:31	AJR	TAL PEN
Total/NA	Prep	7470A			335134	12/16/16 11:16	JAP	TAL PEN
Total/NA	Analysis	7470A		1	336945	12/29/16 15:24	JAP	TAL PEN
Total/NA	Analysis	SM 2540C		1	334497	12/10/16 16:29	TET	TAL PEN

Client Sample ID: SGWC-21

Lab Sample ID: 400-131190-25

Date Collected: 12/07/16 11:56

Matrix: Water

Date Received: 12/09/16 09:11

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	300.0		1	335133	12/15/16 06:45	TAJ	TAL PEN
Total/NA	Analysis	300.0		5	335192	12/15/16 21:50	TAJ	TAL PEN
Total Recoverable	Prep	3005A	DL		334835	12/14/16 08:30	RJB	TAL PEN
Total Recoverable	Analysis	6020	DL	50	335038	12/14/16 15:58	AJR	TAL PEN
Total Recoverable	Prep	3005A			334835	12/14/16 08:30	RJB	TAL PEN
Total Recoverable	Analysis	6020		5	335038	12/14/16 16:47	AJR	TAL PEN
Total/NA	Prep	7470A			335134	12/16/16 11:16	JAP	TAL PEN
Total/NA	Analysis	7470A		1	336945	12/29/16 15:25	JAP	TAL PEN
Total/NA	Analysis	SM 2540C		1	334497	12/10/16 16:29	TET	TAL PEN

Client Sample ID: SGWC-15

Lab Sample ID: 400-131190-26

Date Collected: 12/07/16 11:57

Matrix: Water

Date Received: 12/09/16 09:11

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	300.0		1	335133	12/15/16 07:07	TAJ	TAL PEN
Total/NA	Analysis	300.0		5	335192	12/15/16 23:21	TAJ	TAL PEN

TestAmerica Pensacola

Lab Chronicle

Client: Southern Company
Project/Site: CCR Plant Scherer

TestAmerica Job ID: 400-131190-1
SDG: Ash Pond

Client Sample ID: SGWC-15

Lab Sample ID: 400-131190-26

Date Collected: 12/07/16 11:57

Matrix: Water

Date Received: 12/09/16 09:11

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total Recoverable	Prep	3005A	DL		334835	12/14/16 08:30	RJB	TAL PEN
Total Recoverable	Analysis	6020	DL	50	335038	12/14/16 16:02	AJR	TAL PEN
Total Recoverable	Prep	3005A			334835	12/14/16 08:30	RJB	TAL PEN
Total Recoverable	Analysis	6020		5	335038	12/14/16 16:52	AJR	TAL PEN
Total/NA	Prep	7470A			335134	12/16/16 11:16	JAP	TAL PEN
Total/NA	Analysis	7470A		1	336945	12/29/16 15:26	JAP	TAL PEN
Total/NA	Analysis	SM 2540C		1	334655	12/12/16 13:46	RRC	TAL PEN

Client Sample ID: SGWC-16

Lab Sample ID: 400-131190-27

Date Collected: 12/07/16 15:20

Matrix: Water

Date Received: 12/09/16 09:11

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	300.0		1	335133	12/15/16 07:53	TAJ	TAL PEN
Total Recoverable	Prep	3005A			334835	12/14/16 08:30	RJB	TAL PEN
Total Recoverable	Analysis	6020		5	335038	12/14/16 16:56	AJR	TAL PEN
Total/NA	Prep	7470A			335134	12/16/16 11:16	JAP	TAL PEN
Total/NA	Analysis	7470A		1	336945	12/29/16 15:28	JAP	TAL PEN
Total/NA	Analysis	SM 2540C		1	334655	12/12/16 13:46	RRC	TAL PEN

Client Sample ID: SGWC-9

Lab Sample ID: 400-131190-28

Date Collected: 12/07/16 15:16

Matrix: Water

Date Received: 12/09/16 09:11

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	300.0		1	335133	12/15/16 08:16	TAJ	TAL PEN
Total/NA	Analysis	300.0		10	335192	12/15/16 23:44	TAJ	TAL PEN
Total Recoverable	Prep	3005A	DL		334835	12/14/16 08:30	RJB	TAL PEN
Total Recoverable	Analysis	6020	DL	50	335038	12/14/16 16:07	AJR	TAL PEN
Total Recoverable	Prep	3005A			334835	12/14/16 08:30	RJB	TAL PEN
Total Recoverable	Analysis	6020		5	335038	12/14/16 17:01	AJR	TAL PEN
Total/NA	Prep	7470A			335134	12/16/16 11:16	JAP	TAL PEN
Total/NA	Analysis	7470A		1	336945	12/29/16 15:29	JAP	TAL PEN
Total/NA	Analysis	SM 2540C		1	334655	12/12/16 13:46	RRC	TAL PEN

Client Sample ID: SGWC-18

Lab Sample ID: 400-131190-29

Date Collected: 12/07/16 11:35

Matrix: Water

Date Received: 12/09/16 09:11

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	300.0		1	335133	12/15/16 08:39	TAJ	TAL PEN
Total/NA	Analysis	300.0		20	335192	12/16/16 00:07	TAJ	TAL PEN

TestAmerica Pensacola

Lab Chronicle

Client: Southern Company
Project/Site: CCR Plant Scherer

TestAmerica Job ID: 400-131190-1
SDG: Ash Pond

Client Sample ID: SGWC-18

Lab Sample ID: 400-131190-29

Date Collected: 12/07/16 11:35

Matrix: Water

Date Received: 12/09/16 09:11

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total Recoverable	Prep	3005A	DL		334835	12/14/16 08:30	RJB	TAL PEN
Total Recoverable	Analysis	6020	DL	50	335038	12/14/16 16:34	AJR	TAL PEN
Total Recoverable	Prep	3005A			334835	12/14/16 08:30	RJB	TAL PEN
Total Recoverable	Analysis	6020		5	335038	12/14/16 17:05	AJR	TAL PEN
Total/NA	Prep	7470A			335148	12/16/16 12:09	JAP	TAL PEN
Total/NA	Analysis	7470A		1	336945	12/29/16 13:22	JAP	TAL PEN
Total/NA	Analysis	SM 2540C		1	334655	12/12/16 13:46	RRC	TAL PEN

Laboratory References:

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

QC Association Summary

Client: Southern Company
Project/Site: CCR Plant Scherer

TestAmerica Job ID: 400-131190-1
SDG: Ash Pond

HPLC/IC

Analysis Batch: 334961

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-131190-1	SGWA-24	Total/NA	Water	300.0	
400-131190-2	FD-1 (AP)	Total/NA	Water	300.0	
400-131190-3	SGWA-5	Total/NA	Water	300.0	
400-131190-4	FD-2 (AP)	Total/NA	Water	300.0	
400-131190-5	SGWA-1	Total/NA	Water	300.0	
400-131190-6	SGWC-7	Total/NA	Water	300.0	
400-131190-7	SGWA-2	Total/NA	Water	300.0	
MB 400-334961/34	Method Blank	Total/NA	Water	300.0	
LCS 400-334961/35	Lab Control Sample	Total/NA	Water	300.0	
LCSD 400-334961/36	Lab Control Sample Dup	Total/NA	Water	300.0	
400-130354-J-17 MS	Matrix Spike	Total/NA	Water	300.0	
400-130354-J-17 MSD	Matrix Spike Duplicate	Total/NA	Water	300.0	

Analysis Batch: 334998

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-131190-6	SGWC-7	Total/NA	Water	300.0	
400-131190-8	SGWA-25	Total/NA	Water	300.0	
400-131190-9	SGWA-3	Total/NA	Water	300.0	
400-131190-10	SGWC-8	Total/NA	Water	300.0	
400-131190-11	SGWC-11	Total/NA	Water	300.0	
400-131190-12	SGWC-12	Total/NA	Water	300.0	
400-131190-13	FD-3 (AP)	Total/NA	Water	300.0	
400-131190-14	SGWC-10	Total/NA	Water	300.0	
400-131190-15	SGWA-4	Total/NA	Water	300.0	
MB 400-334998/4	Method Blank	Total/NA	Water	300.0	
LCS 400-334998/5	Lab Control Sample	Total/NA	Water	300.0	
LCSD 400-334998/6	Lab Control Sample Dup	Total/NA	Water	300.0	
400-130354-J-1 MS	Matrix Spike	Total/NA	Water	300.0	
400-130354-J-1 MSD	Matrix Spike Duplicate	Total/NA	Water	300.0	

Analysis Batch: 335133

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-131190-16	SGWC-6	Total/NA	Water	300.0	
400-131190-17	SGWC-13	Total/NA	Water	300.0	
400-131190-18	SGWC-23	Total/NA	Water	300.0	
400-131190-19	FB-1 (AP)	Total/NA	Water	300.0	
400-131190-20	SGWC-17	Total/NA	Water	300.0	
400-131190-21	FB-2 (AP)	Total/NA	Water	300.0	
400-131190-22	SGWC-14	Total/NA	Water	300.0	
400-131190-23	SGWC-22	Total/NA	Water	300.0	
400-131190-24	FB-3 (AP)	Total/NA	Water	300.0	
400-131190-25	SGWC-21	Total/NA	Water	300.0	
400-131190-26	SGWC-15	Total/NA	Water	300.0	
400-131190-27	SGWC-16	Total/NA	Water	300.0	
400-131190-28	SGWC-9	Total/NA	Water	300.0	
400-131190-29	SGWC-18	Total/NA	Water	300.0	
MB 400-335133/35	Method Blank	Total/NA	Water	300.0	
LCS 400-335133/36	Lab Control Sample	Total/NA	Water	300.0	
LCSD 400-335133/37	Lab Control Sample Dup	Total/NA	Water	300.0	
400-131190-16 MS	SGWC-6	Total/NA	Water	300.0	
400-131190-16 MSD	SGWC-6	Total/NA	Water	300.0	

TestAmerica Pensacola

QC Association Summary

Client: Southern Company
Project/Site: CCR Plant Scherer

TestAmerica Job ID: 400-131190-1
SDG: Ash Pond

Analysis Batch: 335192

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-131190-10	SGWC-8	Total/NA	Water	300.0	
400-131190-17	SGWC-13	Total/NA	Water	300.0	
400-131190-18	SGWC-23	Total/NA	Water	300.0	
400-131190-22	SGWC-14	Total/NA	Water	300.0	
400-131190-23	SGWC-22	Total/NA	Water	300.0	
400-131190-25	SGWC-21	Total/NA	Water	300.0	
400-131190-26	SGWC-15	Total/NA	Water	300.0	
400-131190-28	SGWC-9	Total/NA	Water	300.0	
400-131190-29	SGWC-18	Total/NA	Water	300.0	
MB 400-335192/4	Method Blank	Total/NA	Water	300.0	
LCS 400-335192/5	Lab Control Sample	Total/NA	Water	300.0	
LCSD 400-335192/6	Lab Control Sample Dup	Total/NA	Water	300.0	
400-131542-A-4 MS	Matrix Spike	Total/NA	Water	300.0	
400-131542-A-4 MSD	Matrix Spike Duplicate	Total/NA	Water	300.0	

Analysis Batch: 335374

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-131190-20	SGWC-17	Total/NA	Water	300.0	
MB 400-335374/4	Method Blank	Total/NA	Water	300.0	
LCS 400-335374/5	Lab Control Sample	Total/NA	Water	300.0	
LCSD 400-335374/6	Lab Control Sample Dup	Total/NA	Water	300.0	
280-91536-G-1 MS	Matrix Spike	Total/NA	Water	300.0	
280-91536-G-1 MSD	Matrix Spike Duplicate	Total/NA	Water	300.0	

Metals

Prep Batch: 334667

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-131190-1	SGWA-24	Total Recoverable	Water	3005A	
400-131190-2	FD-1 (AP)	Total Recoverable	Water	3005A	
400-131190-3	SGWA-5	Total Recoverable	Water	3005A	
400-131190-4	FD-2 (AP)	Total Recoverable	Water	3005A	
400-131190-5	SGWA-1	Total Recoverable	Water	3005A	
400-131190-6	SGWC-7	Total Recoverable	Water	3005A	
400-131190-7	SGWA-2	Total Recoverable	Water	3005A	
MB 400-334667/1-A ^5	Method Blank	Total Recoverable	Water	3005A	
LCS 400-334667/2-A	Lab Control Sample	Total Recoverable	Water	3005A	
400-131219-G-1-B MS ^5	Matrix Spike	Total Recoverable	Water	3005A	
400-131219-G-1-C MSD ^5	Matrix Spike Duplicate	Total Recoverable	Water	3005A	

Prep Batch: 334668

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-131190-8	SGWA-25	Total Recoverable	Water	3005A	
400-131190-9	SGWA-3	Total Recoverable	Water	3005A	
400-131190-10	SGWC-8	Total Recoverable	Water	3005A	
400-131190-11	SGWC-11	Total Recoverable	Water	3005A	
400-131190-12	SGWC-12	Total Recoverable	Water	3005A	
400-131190-13	FD-3 (AP)	Total Recoverable	Water	3005A	
400-131190-14	SGWC-10	Total Recoverable	Water	3005A	
400-131190-15	SGWA-4	Total Recoverable	Water	3005A	
400-131190-16	SGWC-6	Total Recoverable	Water	3005A	
400-131190-17	SGWC-13	Total Recoverable	Water	3005A	
400-131190-18	SGWC-23	Total Recoverable	Water	3005A	

TestAmerica Pensacola

QC Association Summary

Client: Southern Company
Project/Site: CCR Plant Scherer

TestAmerica Job ID: 400-131190-1
SDG: Ash Pond

Metals (Continued)

Prep Batch: 334668 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-131190-19	FB-1 (AP)	Total Recoverable	Water	3005A	
400-131190-20	SGWC-17	Total Recoverable	Water	3005A	
400-131190-21	FB-2 (AP)	Total Recoverable	Water	3005A	
400-131190-22	SGWC-14	Total Recoverable	Water	3005A	
400-131190-23	SGWC-22	Total Recoverable	Water	3005A	
400-131190-24	FB-3 (AP)	Total Recoverable	Water	3005A	
MB 400-334668/1-A ^5	Method Blank	Total Recoverable	Water	3005A	
LCS 400-334668/2-A	Lab Control Sample	Total Recoverable	Water	3005A	
400-131219-G-7-B MS ^5	Matrix Spike	Total Recoverable	Water	3005A	
400-131219-G-7-C MSD ^5	Matrix Spike Duplicate	Total Recoverable	Water	3005A	

Analysis Batch: 334816

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-131190-8	SGWA-25	Total Recoverable	Water	6020	334668
400-131190-9	SGWA-3	Total Recoverable	Water	6020	334668
400-131190-10	SGWC-8	Total Recoverable	Water	6020	334668
400-131190-11	SGWC-11	Total Recoverable	Water	6020	334668
400-131190-12	SGWC-12	Total Recoverable	Water	6020	334668
400-131190-13	FD-3 (AP)	Total Recoverable	Water	6020	334668
400-131190-14	SGWC-10	Total Recoverable	Water	6020	334668
400-131190-15	SGWA-4	Total Recoverable	Water	6020	334668
400-131190-16	SGWC-6	Total Recoverable	Water	6020	334668
400-131190-17	SGWC-13	Total Recoverable	Water	6020	334668
400-131190-18	SGWC-23	Total Recoverable	Water	6020	334668
400-131190-19	FB-1 (AP)	Total Recoverable	Water	6020	334668
400-131190-20	SGWC-17	Total Recoverable	Water	6020	334668
400-131190-21	FB-2 (AP)	Total Recoverable	Water	6020	334668
400-131190-22	SGWC-14	Total Recoverable	Water	6020	334668
400-131190-23	SGWC-22	Total Recoverable	Water	6020	334668
400-131190-24	FB-3 (AP)	Total Recoverable	Water	6020	334668
MB 400-334668/1-A ^5	Method Blank	Total Recoverable	Water	6020	334668
LCS 400-334668/2-A	Lab Control Sample	Total Recoverable	Water	6020	334668
400-131219-G-7-B MS ^5	Matrix Spike	Total Recoverable	Water	6020	334668
400-131219-G-7-C MSD ^5	Matrix Spike Duplicate	Total Recoverable	Water	6020	334668

Prep Batch: 334835

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-131190-25	SGWC-21	Total Recoverable	Water	3005A	
400-131190-25 - DL	SGWC-21	Total Recoverable	Water	3005A	
400-131190-26 - DL	SGWC-15	Total Recoverable	Water	3005A	
400-131190-26	SGWC-15	Total Recoverable	Water	3005A	
400-131190-27	SGWC-16	Total Recoverable	Water	3005A	
400-131190-28	SGWC-9	Total Recoverable	Water	3005A	
400-131190-28 - DL	SGWC-9	Total Recoverable	Water	3005A	
400-131190-29	SGWC-18	Total Recoverable	Water	3005A	
400-131190-29 - DL	SGWC-18	Total Recoverable	Water	3005A	
MB 400-334835/1-A ^5	Method Blank	Total Recoverable	Water	3005A	
LCS 400-334835/2-A	Lab Control Sample	Total Recoverable	Water	3005A	
400-131354-B-4-B MS ^5	Matrix Spike	Total Recoverable	Water	3005A	
400-131354-B-4-C MSD ^5	Matrix Spike Duplicate	Total Recoverable	Water	3005A	

TestAmerica Pensacola

QC Association Summary

Client: Southern Company
Project/Site: CCR Plant Scherer

TestAmerica Job ID: 400-131190-1
SDG: Ash Pond

Metals (Continued)

Analysis Batch: 335038

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-131190-1	SGWA-24	Total Recoverable	Water	6020	334667
400-131190-2	FD-1 (AP)	Total Recoverable	Water	6020	334667
400-131190-3	SGWA-5	Total Recoverable	Water	6020	334667
400-131190-4	FD-2 (AP)	Total Recoverable	Water	6020	334667
400-131190-5	SGWA-1	Total Recoverable	Water	6020	334667
400-131190-6	SGWC-7	Total Recoverable	Water	6020	334667
400-131190-7	SGWA-2	Total Recoverable	Water	6020	334667
400-131190-25 - DL	SGWC-21	Total Recoverable	Water	6020	334835
400-131190-25	SGWC-21	Total Recoverable	Water	6020	334835
400-131190-26 - DL	SGWC-15	Total Recoverable	Water	6020	334835
400-131190-26	SGWC-15	Total Recoverable	Water	6020	334835
400-131190-27	SGWC-16	Total Recoverable	Water	6020	334835
400-131190-28 - DL	SGWC-9	Total Recoverable	Water	6020	334835
400-131190-28	SGWC-9	Total Recoverable	Water	6020	334835
400-131190-29 - DL	SGWC-18	Total Recoverable	Water	6020	334835
400-131190-29	SGWC-18	Total Recoverable	Water	6020	334835
MB 400-334667/1-A ^5	Method Blank	Total Recoverable	Water	6020	334667
MB 400-334835/1-A ^5	Method Blank	Total Recoverable	Water	6020	334835
LCS 400-334667/2-A	Lab Control Sample	Total Recoverable	Water	6020	334667
LCS 400-334835/2-A	Lab Control Sample	Total Recoverable	Water	6020	334835
400-131219-G-1-B MS ^5	Matrix Spike	Total Recoverable	Water	6020	334667
400-131219-G-1-C MSD ^5	Matrix Spike Duplicate	Total Recoverable	Water	6020	334667
400-131354-B-4-B MS ^5	Matrix Spike	Total Recoverable	Water	6020	334835
400-131354-B-4-C MSD ^5	Matrix Spike Duplicate	Total Recoverable	Water	6020	334835

Prep Batch: 335122

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-131190-1	SGWA-24	Total/NA	Water	7470A	
400-131190-2	FD-1 (AP)	Total/NA	Water	7470A	
400-131190-3	SGWA-5	Total/NA	Water	7470A	
400-131190-4	FD-2 (AP)	Total/NA	Water	7470A	
400-131190-5	SGWA-1	Total/NA	Water	7470A	
400-131190-6	SGWC-7	Total/NA	Water	7470A	
400-131190-7	SGWA-2	Total/NA	Water	7470A	
400-131190-8	SGWA-25	Total/NA	Water	7470A	
MB 400-335122/14-A	Method Blank	Total/NA	Water	7470A	
LCS 400-335122/15-A	Lab Control Sample	Total/NA	Water	7470A	
400-131172-B-1-C MS	Matrix Spike	Total/NA	Water	7470A	
400-131172-B-1-D MSD	Matrix Spike Duplicate	Total/NA	Water	7470A	

Prep Batch: 335134

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-131190-9	SGWA-3	Total/NA	Water	7470A	
400-131190-10	SGWC-8	Total/NA	Water	7470A	
400-131190-11	SGWC-11	Total/NA	Water	7470A	
400-131190-12	SGWC-12	Total/NA	Water	7470A	
400-131190-13	FD-3 (AP)	Total/NA	Water	7470A	
400-131190-14	SGWC-10	Total/NA	Water	7470A	
400-131190-15	SGWA-4	Total/NA	Water	7470A	
400-131190-16	SGWC-6	Total/NA	Water	7470A	
400-131190-17	SGWC-13	Total/NA	Water	7470A	

TestAmerica Pensacola

QC Association Summary

Client: Southern Company
Project/Site: CCR Plant Scherer

TestAmerica Job ID: 400-131190-1
SDG: Ash Pond

Metals (Continued)

Prep Batch: 335134 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-131190-18	SGWC-23	Total/NA	Water	7470A	
400-131190-19	FB-1 (AP)	Total/NA	Water	7470A	
400-131190-20	SGWC-17	Total/NA	Water	7470A	
400-131190-21	FB-2 (AP)	Total/NA	Water	7470A	
400-131190-22	SGWC-14	Total/NA	Water	7470A	
400-131190-23	SGWC-22	Total/NA	Water	7470A	
400-131190-24	FB-3 (AP)	Total/NA	Water	7470A	
400-131190-25	SGWC-21	Total/NA	Water	7470A	
400-131190-26	SGWC-15	Total/NA	Water	7470A	
400-131190-27	SGWC-16	Total/NA	Water	7470A	
400-131190-28	SGWC-9	Total/NA	Water	7470A	
MB 400-335134/14-A	Method Blank	Total/NA	Water	7470A	
LCS 400-335134/15-A	Lab Control Sample	Total/NA	Water	7470A	
400-131190-9 MS	SGWA-3	Total/NA	Water	7470A	
400-131190-9 MSD	SGWA-3	Total/NA	Water	7470A	

Prep Batch: 335148

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-131190-29	SGWC-18	Total/NA	Water	7470A	
MB 400-335148/14-A	Method Blank	Total/NA	Water	7470A	
LCS 400-335148/15-A	Lab Control Sample	Total/NA	Water	7470A	
400-131190-29 MS	SGWC-18	Total/NA	Water	7470A	
400-131190-29 MSD	SGWC-18	Total/NA	Water	7470A	

Analysis Batch: 336945

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-131190-1	SGWA-24	Total/NA	Water	7470A	335122
400-131190-2	FD-1 (AP)	Total/NA	Water	7470A	335122
400-131190-3	SGWA-5	Total/NA	Water	7470A	335122
400-131190-4	FD-2 (AP)	Total/NA	Water	7470A	335122
400-131190-5	SGWA-1	Total/NA	Water	7470A	335122
400-131190-6	SGWC-7	Total/NA	Water	7470A	335122
400-131190-7	SGWA-2	Total/NA	Water	7470A	335122
400-131190-8	SGWA-25	Total/NA	Water	7470A	335122
400-131190-9	SGWA-3	Total/NA	Water	7470A	335134
400-131190-10	SGWC-8	Total/NA	Water	7470A	335134
400-131190-11	SGWC-11	Total/NA	Water	7470A	335134
400-131190-12	SGWC-12	Total/NA	Water	7470A	335134
400-131190-13	FD-3 (AP)	Total/NA	Water	7470A	335134
400-131190-14	SGWC-10	Total/NA	Water	7470A	335134
400-131190-15	SGWA-4	Total/NA	Water	7470A	335134
400-131190-16	SGWC-6	Total/NA	Water	7470A	335134
400-131190-17	SGWC-13	Total/NA	Water	7470A	335134
400-131190-18	SGWC-23	Total/NA	Water	7470A	335134
400-131190-19	FB-1 (AP)	Total/NA	Water	7470A	335134
400-131190-20	SGWC-17	Total/NA	Water	7470A	335134
400-131190-21	FB-2 (AP)	Total/NA	Water	7470A	335134
400-131190-22	SGWC-14	Total/NA	Water	7470A	335134
400-131190-23	SGWC-22	Total/NA	Water	7470A	335134
400-131190-24	FB-3 (AP)	Total/NA	Water	7470A	335134
400-131190-25	SGWC-21	Total/NA	Water	7470A	335134

TestAmerica Pensacola

QC Association Summary

Client: Southern Company
 Project/Site: CCR Plant Scherer

TestAmerica Job ID: 400-131190-1
 SDG: Ash Pond

Metals (Continued)

Analysis Batch: 336945 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-131190-26	SGWC-15	Total/NA	Water	7470A	335134
400-131190-27	SGWC-16	Total/NA	Water	7470A	335134
400-131190-28	SGWC-9	Total/NA	Water	7470A	335134
400-131190-29	SGWC-18	Total/NA	Water	7470A	335148
MB 400-335122/14-A	Method Blank	Total/NA	Water	7470A	335122
MB 400-335134/14-A	Method Blank	Total/NA	Water	7470A	335134
MB 400-335148/14-A	Method Blank	Total/NA	Water	7470A	335148
LCS 400-335122/15-A	Lab Control Sample	Total/NA	Water	7470A	335122
LCS 400-335134/15-A	Lab Control Sample	Total/NA	Water	7470A	335134
LCS 400-335148/15-A	Lab Control Sample	Total/NA	Water	7470A	335148
400-131172-B-1-C MS	Matrix Spike	Total/NA	Water	7470A	335122
400-131172-B-1-D MSD	Matrix Spike Duplicate	Total/NA	Water	7470A	335122
400-131190-9 MS	SGWA-3	Total/NA	Water	7470A	335134
400-131190-9 MSD	SGWA-3	Total/NA	Water	7470A	335134
400-131190-29 MS	SGWC-18	Total/NA	Water	7470A	335148
400-131190-29 MSD	SGWC-18	Total/NA	Water	7470A	335148

General Chemistry

Analysis Batch: 334496

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-131190-3	SGWA-5	Total/NA	Water	SM 2540C	
400-131190-5	SGWA-1	Total/NA	Water	SM 2540C	
400-131190-6	SGWC-7	Total/NA	Water	SM 2540C	
400-131190-7	SGWA-2	Total/NA	Water	SM 2540C	
400-131190-8	SGWA-25	Total/NA	Water	SM 2540C	
400-131190-9	SGWA-3	Total/NA	Water	SM 2540C	
400-131190-10	SGWC-8	Total/NA	Water	SM 2540C	
400-131190-11	SGWC-11	Total/NA	Water	SM 2540C	
400-131190-12	SGWC-12	Total/NA	Water	SM 2540C	
400-131190-14	SGWC-10	Total/NA	Water	SM 2540C	
MB 400-334496/1	Method Blank	Total/NA	Water	SM 2540C	
LCS 400-334496/2	Lab Control Sample	Total/NA	Water	SM 2540C	
400-131190-3 DU	SGWA-5	Total/NA	Water	SM 2540C	
400-131190-5 DU	SGWA-1	Total/NA	Water	SM 2540C	

Analysis Batch: 334497

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-131190-15	SGWA-4	Total/NA	Water	SM 2540C	
400-131190-16	SGWC-6	Total/NA	Water	SM 2540C	
400-131190-17	SGWC-13	Total/NA	Water	SM 2540C	
400-131190-18	SGWC-23	Total/NA	Water	SM 2540C	
400-131190-19	FB-1 (AP)	Total/NA	Water	SM 2540C	
400-131190-20	SGWC-17	Total/NA	Water	SM 2540C	
400-131190-21	FB-2 (AP)	Total/NA	Water	SM 2540C	
400-131190-22	SGWC-14	Total/NA	Water	SM 2540C	
400-131190-23	SGWC-22	Total/NA	Water	SM 2540C	
400-131190-24	FB-3 (AP)	Total/NA	Water	SM 2540C	
400-131190-25	SGWC-21	Total/NA	Water	SM 2540C	
MB 400-334497/1	Method Blank	Total/NA	Water	SM 2540C	

TestAmerica Pensacola

QC Association Summary

Client: Southern Company
Project/Site: CCR Plant Scherer

TestAmerica Job ID: 400-131190-1
SDG: Ash Pond

General Chemistry (Continued)

Analysis Batch: 334497 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCS 400-334497/2	Lab Control Sample	Total/NA	Water	SM 2540C	
400-131190-15 DU	SGWA-4	Total/NA	Water	SM 2540C	
400-131190-18 DU	SGWC-23	Total/NA	Water	SM 2540C	

Analysis Batch: 334531

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-131190-1	SGWA-24	Total/NA	Water	SM 2540C	
400-131190-2	FD-1 (AP)	Total/NA	Water	SM 2540C	
400-131190-4	FD-2 (AP)	Total/NA	Water	SM 2540C	
400-131190-13	FD-3 (AP)	Total/NA	Water	SM 2540C	
MB 400-334531/1	Method Blank	Total/NA	Water	SM 2540C	
LCS 400-334531/2	Lab Control Sample	Total/NA	Water	SM 2540C	
400-131172-A-5 DU	Duplicate	Total/NA	Water	SM 2540C	
400-131172-A-6 DU	Duplicate	Total/NA	Water	SM 2540C	

Analysis Batch: 334655

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-131190-26	SGWC-15	Total/NA	Water	SM 2540C	
400-131190-27	SGWC-16	Total/NA	Water	SM 2540C	
400-131190-28	SGWC-9	Total/NA	Water	SM 2540C	
400-131190-29	SGWC-18	Total/NA	Water	SM 2540C	
MB 400-334655/1	Method Blank	Total/NA	Water	SM 2540C	
LCS 400-334655/2	Lab Control Sample	Total/NA	Water	SM 2540C	
400-131354-A-1 DU	Duplicate	Total/NA	Water	SM 2540C	
400-131354-A-4 DU	Duplicate	Total/NA	Water	SM 2540C	

QC Sample Results

Client: Southern Company
Project/Site: CCR Plant Scherer

TestAmerica Job ID: 400-131190-1
SDG: Ash Pond

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 400-334961/34
Matrix: Water
Analysis Batch: 334961

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<0.89		1.0	0.89	mg/L			12/13/16 23:06	1
Fluoride	<0.082		0.20	0.082	mg/L			12/13/16 23:06	1
Sulfate	<0.70		1.0	0.70	mg/L			12/13/16 23:06	1

Lab Sample ID: LCS 400-334961/35
Matrix: Water
Analysis Batch: 334961

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloride	10.0	9.72		mg/L		97	90 - 110
Fluoride	10.0	11.1	*	mg/L		111	90 - 110
Sulfate	10.0	10.1		mg/L		101	90 - 110

Lab Sample ID: LCSD 400-334961/36
Matrix: Water
Analysis Batch: 334961

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
Chloride	10.0	9.70		mg/L		97	90 - 110	0	15
Fluoride	10.0	11.0		mg/L		110	90 - 110	0	15
Sulfate	10.0	10.2		mg/L		102	90 - 110	1	15

Lab Sample ID: 400-130354-J-17 MS
Matrix: Water
Analysis Batch: 334961

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	17		10.0	26.2		mg/L		93	80 - 120
Fluoride	0.11	J *	10.0	11.3		mg/L		112	80 - 120
Sulfate	47		10.0	57.0	E 4	mg/L		101	80 - 120

Lab Sample ID: 400-130354-J-17 MSD
Matrix: Water
Analysis Batch: 334961

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	17		10.0	26.2		mg/L		93	80 - 120	0	20
Fluoride	0.11	J *	10.0	11.6		mg/L		114	80 - 120	2	20
Sulfate	47		10.0	57.5	E 4	mg/L		106	80 - 120	1	20

Lab Sample ID: MB 400-334998/4
Matrix: Water
Analysis Batch: 334998

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<0.89		1.0	0.89	mg/L			12/14/16 12:02	1
Fluoride	<0.082		0.20	0.082	mg/L			12/14/16 12:02	1
Sulfate	<0.70		1.0	0.70	mg/L			12/14/16 12:02	1

TestAmerica Pensacola

QC Sample Results

Client: Southern Company
Project/Site: CCR Plant Scherer

TestAmerica Job ID: 400-131190-1
SDG: Ash Pond

Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: LCS 400-334998/5
Matrix: Water
Analysis Batch: 334998

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloride	10.0	9.51		mg/L		95	90 - 110
Fluoride	10.0	10.8		mg/L		108	90 - 110
Sulfate	10.0	9.89		mg/L		99	90 - 110

Lab Sample ID: LCSD 400-334998/6
Matrix: Water
Analysis Batch: 334998

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
Chloride	10.0	9.63		mg/L		96	90 - 110	1	15
Fluoride	10.0	10.7		mg/L		107	90 - 110	1	15
Sulfate	10.0	9.98		mg/L		100	90 - 110	1	15

Lab Sample ID: 400-130354-J-1 MS
Matrix: Water
Analysis Batch: 334998

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	60		50.0	106		mg/L		92	80 - 120
Fluoride	<0.41		50.0	57.1		mg/L		114	80 - 120
Sulfate	43		50.0	92.9		mg/L		101	80 - 120

Lab Sample ID: 400-130354-J-1 MSD
Matrix: Water
Analysis Batch: 334998

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	60		50.0	106		mg/L		92	80 - 120	0	20
Fluoride	<0.41		50.0	55.7		mg/L		111	80 - 120	2	20
Sulfate	43		50.0	93.5		mg/L		102	80 - 120	1	20

Lab Sample ID: MB 400-335133/35
Matrix: Water
Analysis Batch: 335133

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<0.89		1.0	0.89	mg/L			12/14/16 23:54	1
Fluoride	<0.082		0.20	0.082	mg/L			12/14/16 23:54	1
Sulfate	<0.70		1.0	0.70	mg/L			12/14/16 23:54	1

Lab Sample ID: LCS 400-335133/36
Matrix: Water
Analysis Batch: 335133

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloride	10.0	9.68		mg/L		97	90 - 110
Fluoride	10.0	10.8		mg/L		108	90 - 110
Sulfate	10.0	10.0		mg/L		100	90 - 110

TestAmerica Pensacola

QC Sample Results

Client: Southern Company
Project/Site: CCR Plant Scherer

TestAmerica Job ID: 400-131190-1
SDG: Ash Pond

Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: LCSD 400-335133/37
Matrix: Water
Analysis Batch: 335133

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
Chloride	10.0	9.58		mg/L		96	90 - 110	1	15
Fluoride	10.0	11.0		mg/L		110	90 - 110	2	15
Sulfate	10.0	10.0		mg/L		100	90 - 110	0	15

Lab Sample ID: 400-131190-16 MS
Matrix: Water
Analysis Batch: 335133

Client Sample ID: SGWC-6
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Chloride	2.3		10.0	12.0		mg/L		97	80 - 120		
Fluoride	0.14	J	10.0	11.5		mg/L		114	80 - 120		
Sulfate	<0.70		10.0	11.5		mg/L		115	80 - 120		

Lab Sample ID: 400-131190-16 MSD
Matrix: Water
Analysis Batch: 335133

Client Sample ID: SGWC-6
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	12.0		mg/L		97	80 - 120	0	20
Fluoride	0.14	J	10.0	11.4		mg/L		112	80 - 120	1	20
Sulfate	<0.70		10.0	11.5		mg/L		115	80 - 120	1	20

Lab Sample ID: MB 400-335192/4
Matrix: Water
Analysis Batch: 335192

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<0.89		1.0	0.89	mg/L			12/15/16 15:22	1
Fluoride	<0.082		0.20	0.082	mg/L			12/15/16 15:22	1
Sulfate	<0.70		1.0	0.70	mg/L			12/15/16 15:22	1

Lab Sample ID: LCS 400-335192/5
Matrix: Water
Analysis Batch: 335192

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Chloride	10.0	9.42		mg/L		94	90 - 110		
Fluoride	10.0	11.0		mg/L		110	90 - 110		
Sulfate	10.0	9.97		mg/L		100	90 - 110		

Lab Sample ID: LCSD 400-335192/6
Matrix: Water
Analysis Batch: 335192

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
Chloride	10.0	9.40		mg/L		94	90 - 110	0	15
Fluoride	10.0	11.0		mg/L		110	90 - 110	0	15
Sulfate	10.0	9.99		mg/L		100	90 - 110	0	15

TestAmerica Pensacola

QC Sample Results

Client: Southern Company
Project/Site: CCR Plant Scherer

TestAmerica Job ID: 400-131190-1
SDG: Ash Pond

Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: 400-131542-A-4 MS

Matrix: Water

Analysis Batch: 335192

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Analyte	Sample	Sample	Spike	MS MS		Unit	D	%Rec	%Rec.	Limits
	Result	Qualifier		Result	Qualifier					
Chloride	260	E	10.0	262	E 4	mg/L		53	80 - 120	
Fluoride	0.17	J F1	10.0	12.4	F1	mg/L		122	80 - 120	
Sulfate	590	E	10.0	613	E 4	mg/L		245	80 - 120	

Lab Sample ID: 400-131542-A-4 MSD

Matrix: Water

Analysis Batch: 335192

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

Analyte	Sample	Sample	Spike	MSD MSD		Unit	D	%Rec	%Rec.	Limits	RPD	Limit
	Result	Qualifier		Result	Qualifier							
Chloride	260	E	10.0	263	E 4	mg/L		60	80 - 120	0	20	
Fluoride	0.17	J F1	10.0	12.4	F1	mg/L		122	80 - 120	0	20	
Sulfate	590	E	10.0	615	E 4	mg/L		272	80 - 120	0	20	

Lab Sample ID: MB 400-335374/4

Matrix: Water

Analysis Batch: 335374

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB MB		RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Chloride	<0.89		1.0	0.89	mg/L			12/16/16 11:53	1
Fluoride	<0.082		0.20	0.082	mg/L			12/16/16 11:53	1
Sulfate	<0.70		1.0	0.70	mg/L			12/16/16 11:53	1

Lab Sample ID: LCS 400-335374/5

Matrix: Water

Analysis Batch: 335374

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike	LCS LCS		Unit	D	%Rec	%Rec.	Limits
		Result	Qualifier					
Chloride	10.0	9.98		mg/L		100	80 - 110	
Fluoride	10.0	10.9		mg/L		109	80 - 110	
Sulfate	10.0	10.4		mg/L		104	80 - 110	

Lab Sample ID: LCSD 400-335374/6

Matrix: Water

Analysis Batch: 335374

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Analyte	Spike	LCSD LCSD		Unit	D	%Rec	%Rec.	Limits	RPD	Limit
		Result	Qualifier							
Chloride	10.0	9.90		mg/L		99	80 - 110	1	15	
Fluoride	10.0	11.4	*	mg/L		114	80 - 110	4	15	
Sulfate	10.0	10.3		mg/L		103	80 - 110	1	15	

Lab Sample ID: 280-91536-G-1 MS

Matrix: Water

Analysis Batch: 335374

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Analyte	Sample	Sample	Spike	MS MS		Unit	D	%Rec	%Rec.	Limits
	Result	Qualifier		Result	Qualifier					
Chloride	49		10.0	57.0	E 4	mg/L		80	80 - 120	
Fluoride	<0.082	*	10.0	10.8		mg/L		108	80 - 120	
Sulfate	<0.70		10.0	11.2		mg/L		112	80 - 120	

TestAmerica Pensacola

QC Sample Results

Client: Southern Company
Project/Site: CCR Plant Scherer

TestAmerica Job ID: 400-131190-1
SDG: Ash Pond

Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: 280-91536-G-1 MSD
Matrix: Water
Analysis Batch: 335374

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	49		10.0	57.6	E 4	mg/L		86	80 - 120	1	20
Fluoride	<0.082	*	10.0	11.0		mg/L		110	80 - 120	2	20
Sulfate	<0.70		10.0	11.3		mg/L		113	80 - 120	2	20

Method: 6020 - Metals (ICP/MS)

Lab Sample ID: MB 400-334667/1-A ^5
Matrix: Water
Analysis Batch: 335038

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 334667

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0010		0.0025	0.0010	mg/L		12/13/16 11:25	12/14/16 12:10	5
Arsenic	<0.00046		0.0013	0.00046	mg/L		12/13/16 11:25	12/14/16 12:10	5
Barium	<0.00049		0.0025	0.00049	mg/L		12/13/16 11:25	12/14/16 12:10	5
Beryllium	<0.00034		0.0025	0.00034	mg/L		12/13/16 11:25	12/14/16 12:10	5
Boron	<0.021		0.050	0.021	mg/L		12/13/16 11:25	12/14/16 12:10	5
Cadmium	<0.00034		0.0025	0.00034	mg/L		12/13/16 11:25	12/14/16 12:10	5
Calcium	<0.13		0.25	0.13	mg/L		12/13/16 11:25	12/14/16 12:10	5
Chromium	<0.0011		0.0025	0.0011	mg/L		12/13/16 11:25	12/14/16 12:10	5
Cobalt	<0.00040		0.0025	0.00040	mg/L		12/13/16 11:25	12/14/16 12:10	5
Lead	<0.00035		0.0013	0.00035	mg/L		12/13/16 11:25	12/14/16 12:10	5
Lithium	<0.0032		0.0050	0.0032	mg/L		12/13/16 11:25	12/14/16 12:10	5
Molybdenum	<0.00085		0.015	0.00085	mg/L		12/13/16 11:25	12/14/16 12:10	5
Selenium	<0.00024		0.0013	0.00024	mg/L		12/13/16 11:25	12/14/16 12:10	5
Thallium	<0.000085		0.00050	0.000085	mg/L		12/13/16 11:25	12/14/16 12:10	5

Lab Sample ID: LCS 400-334667/2-A
Matrix: Water
Analysis Batch: 335038

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 334667

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Antimony	0.0500	0.0531		mg/L		106	80 - 120
Arsenic	0.0500	0.0498		mg/L		100	80 - 120
Barium	0.0500	0.0505		mg/L		101	80 - 120
Beryllium	0.0500	0.0499		mg/L		100	80 - 120
Boron	0.100	0.0973		mg/L		97	80 - 120
Cadmium	0.0500	0.0510		mg/L		102	80 - 120
Calcium	5.00	4.83		mg/L		97	80 - 120
Chromium	0.0500	0.0478		mg/L		96	80 - 120
Cobalt	0.0500	0.0496		mg/L		99	80 - 120
Lead	0.0500	0.0493		mg/L		99	80 - 120
Lithium	0.0500	0.0523		mg/L		105	80 - 120
Molybdenum	0.0500	0.0502		mg/L		100	80 - 120
Selenium	0.0500	0.0502		mg/L		100	80 - 120
Thallium	0.0100	0.00995		mg/L		99	80 - 120

QC Sample Results

Client: Southern Company
Project/Site: CCR Plant Scherer

TestAmerica Job ID: 400-131190-1
SDG: Ash Pond

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

Lab Sample ID: 400-131219-G-1-B MS ^5

Matrix: Water

Analysis Batch: 335038

Client Sample ID: Matrix Spike

Prep Type: Total Recoverable

Prep Batch: 334667

Analyte	Sample	Sample Qualifier	Spike Added	MS	Unit	D	%Rec	Limits	%Rec.
	Result			Result					
Antimony	<0.0010		0.0500	0.0562	mg/L		112	75 - 125	
Arsenic	0.0072		0.0500	0.0581	mg/L		102	75 - 125	
Barium	0.091		0.0500	0.144	mg/L		106	75 - 125	
Beryllium	<0.00034		0.0500	0.0508	mg/L		102	75 - 125	
Boron	0.20	F1	0.100	0.325	mg/L		124	75 - 125	
Cadmium	<0.00034		0.0500	0.0513	mg/L		103	75 - 125	
Calcium	13		5.00	18.2	mg/L		97	75 - 125	
Chromium	0.0011	J	0.0500	0.0507	mg/L		99	75 - 125	
Cobalt	<0.00040		0.0500	0.0502	mg/L		100	75 - 125	
Lead	0.00066	J	0.0500	0.0511	mg/L		101	75 - 125	
Lithium	0.040		0.0500	0.0911	mg/L		102	75 - 125	
Molybdenum	0.0034	J	0.0500	0.0564	mg/L		106	75 - 125	
Selenium	<0.00024		0.0500	0.0520	mg/L		104	75 - 125	
Thallium	<0.000085		0.0100	0.0102	mg/L		102	75 - 125	

Lab Sample ID: 400-131219-G-1-C MSD ^5

Matrix: Water

Analysis Batch: 335038

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total Recoverable

Prep Batch: 334667

Analyte	Sample	Sample Qualifier	Spike Added	MSD	Unit	D	%Rec	Limits	RPD	Limit
	Result			Result						
Antimony	<0.0010		0.0500	0.0542	mg/L		108	75 - 125	4	20
Arsenic	0.0072		0.0500	0.0581	mg/L		102	75 - 125	0	20
Barium	0.091		0.0500	0.142	mg/L		101	75 - 125	2	20
Beryllium	<0.00034		0.0500	0.0513	mg/L		103	75 - 125	1	20
Boron	0.20	F1	0.100	0.332	F1		131	75 - 125	2	20
Cadmium	<0.00034		0.0500	0.0507	mg/L		101	75 - 125	1	20
Calcium	13		5.00	18.2	mg/L		97	75 - 125	0	20
Chromium	0.0011	J	0.0500	0.0507	mg/L		99	75 - 125	0	20
Cobalt	<0.00040		0.0500	0.0499	mg/L		100	75 - 125	1	20
Lead	0.00066	J	0.0500	0.0513	mg/L		101	75 - 125	0	20
Lithium	0.040		0.0500	0.0912	mg/L		102	75 - 125	0	20
Molybdenum	0.0034	J	0.0500	0.0547	mg/L		103	75 - 125	3	20
Selenium	<0.00024		0.0500	0.0497	mg/L		99	75 - 125	4	20
Thallium	<0.000085		0.0100	0.0101	mg/L		101	75 - 125	1	20

Lab Sample ID: MB 400-334668/1-A ^5

Matrix: Water

Analysis Batch: 334816

Client Sample ID: Method Blank

Prep Type: Total Recoverable

Prep Batch: 334668

Analyte	MB	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result								
Antimony	<0.0010		0.0025	0.0010	mg/L		12/13/16 10:50	12/13/16 13:53	5
Arsenic	<0.00046		0.0013	0.00046	mg/L		12/13/16 10:50	12/13/16 13:53	5
Barium	<0.00049		0.0025	0.00049	mg/L		12/13/16 10:50	12/13/16 13:53	5
Beryllium	<0.00034		0.0025	0.00034	mg/L		12/13/16 10:50	12/13/16 13:53	5
Boron	<0.021		0.050	0.021	mg/L		12/13/16 10:50	12/13/16 13:53	5
Cadmium	<0.00034		0.0025	0.00034	mg/L		12/13/16 10:50	12/13/16 13:53	5
Calcium	<0.13		0.25	0.13	mg/L		12/13/16 10:50	12/13/16 13:53	5
Chromium	<0.0011		0.0025	0.0011	mg/L		12/13/16 10:50	12/13/16 13:53	5

TestAmerica Pensacola

QC Sample Results

Client: Southern Company
Project/Site: CCR Plant Scherer

TestAmerica Job ID: 400-131190-1
SDG: Ash Pond

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

Lab Sample ID: MB 400-334668/1-A ^5
Matrix: Water
Analysis Batch: 334816

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 334668

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Cobalt	<0.00040		0.0025	0.00040	mg/L		12/13/16 10:50	12/13/16 13:53	5
Lead	<0.00035		0.0013	0.00035	mg/L		12/13/16 10:50	12/13/16 13:53	5
Lithium	<0.0032		0.0050	0.0032	mg/L		12/13/16 10:50	12/13/16 13:53	5
Molybdenum	<0.00085		0.015	0.00085	mg/L		12/13/16 10:50	12/13/16 13:53	5
Selenium	<0.00024		0.0013	0.00024	mg/L		12/13/16 10:50	12/13/16 13:53	5
Thallium	<0.000085		0.00050	0.000085	mg/L		12/13/16 10:50	12/13/16 13:53	5

Lab Sample ID: LCS 400-334668/2-A
Matrix: Water
Analysis Batch: 334816

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 334668

Analyte	Spike Added	LCS	LCS	Unit	D	%Rec	%Rec.	Limits
		Result	Qualifier					
Antimony	0.0500	0.0505		mg/L		101	80 - 120	
Arsenic	0.0500	0.0509		mg/L		102	80 - 120	
Barium	0.0500	0.0482		mg/L		96	80 - 120	
Beryllium	0.0500	0.0510		mg/L		102	80 - 120	
Boron	0.100	0.102		mg/L		102	80 - 120	
Cadmium	0.0500	0.0519		mg/L		104	80 - 120	
Calcium	5.00	4.87		mg/L		97	80 - 120	
Chromium	0.0500	0.0491		mg/L		98	80 - 120	
Cobalt	0.0500	0.0509		mg/L		102	80 - 120	
Lead	0.0500	0.0496		mg/L		99	80 - 120	
Lithium	0.0500	0.0511		mg/L		102	80 - 120	
Molybdenum	0.0500	0.0505		mg/L		101	80 - 120	
Selenium	0.0500	0.0517		mg/L		103	80 - 120	
Thallium	0.0100	0.0102		mg/L		102	80 - 120	

Lab Sample ID: 400-131219-G-7-B MS ^5
Matrix: Water
Analysis Batch: 334816

Client Sample ID: Matrix Spike
Prep Type: Total Recoverable
Prep Batch: 334668

Analyte	Sample	Sample	Spike Added	MS	MS	Unit	D	%Rec	%Rec.	Limits
	Result	Qualifier		Result	Qualifier					
Antimony	<0.0010		0.0500	0.0444		mg/L		89	75 - 125	
Arsenic	0.0037		0.0500	0.0560		mg/L		105	75 - 125	
Barium	0.63		0.0500	0.677	4	mg/L		94	75 - 125	
Beryllium	<0.00034		0.0500	0.0506		mg/L		101	75 - 125	
Boron	0.30		0.100	0.412		mg/L		115	75 - 125	
Cadmium	<0.00034		0.0500	0.0504		mg/L		101	75 - 125	
Calcium	150	E	5.00	158	E 4	mg/L		86	75 - 125	
Chromium	0.024		0.0500	0.0745		mg/L		101	75 - 125	
Cobalt	0.0048		0.0500	0.0546		mg/L		100	75 - 125	
Lead	0.0067		0.0500	0.0576		mg/L		102	75 - 125	
Lithium	0.053		0.0500	0.104		mg/L		103	75 - 125	
Molybdenum	0.0021	J	0.0500	0.0506		mg/L		97	75 - 125	
Selenium	0.00027	J	0.0500	0.0525		mg/L		104	75 - 125	
Thallium	0.00012	J	0.0100	0.0107		mg/L		105	75 - 125	

TestAmerica Pensacola

QC Sample Results

Client: Southern Company
Project/Site: CCR Plant Scherer

TestAmerica Job ID: 400-131190-1
SDG: Ash Pond

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

Lab Sample ID: 400-131219-G-7-C MSD ^5
Matrix: Water
Analysis Batch: 334816

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total Recoverable
Prep Batch: 334668

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	Limits	RPD	RPD Limit
Antimony	<0.0010		0.0500	0.0431		mg/L		86	75 - 125	3	20
Arsenic	0.0037		0.0500	0.0561		mg/L		105	75 - 125	0	20
Barium	0.63		0.0500	0.673	4	mg/L		85	75 - 125	1	20
Beryllium	<0.00034		0.0500	0.0494		mg/L		99	75 - 125	2	20
Boron	0.30		0.100	0.409		mg/L		112	75 - 125	1	20
Cadmium	<0.00034		0.0500	0.0502		mg/L		100	75 - 125	0	20
Calcium	150	E	5.00	158	E 4	mg/L		86	75 - 125	0	20
Chromium	0.024		0.0500	0.0729		mg/L		98	75 - 125	2	20
Cobalt	0.0048		0.0500	0.0539		mg/L		98	75 - 125	1	20
Lead	0.0067		0.0500	0.0574		mg/L		101	75 - 125	0	20
Lithium	0.053		0.0500	0.106		mg/L		107	75 - 125	2	20
Molybdenum	0.0021	J	0.0500	0.0494		mg/L		95	75 - 125	2	20
Selenium	0.00027	J	0.0500	0.0505		mg/L		100	75 - 125	4	20
Thallium	0.00012	J	0.0100	0.0105		mg/L		104	75 - 125	1	20

Lab Sample ID: MB 400-334835/1-A ^5
Matrix: Water
Analysis Batch: 335038

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 334835

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0010		0.0025	0.0010	mg/L		12/14/16 08:30	12/14/16 15:26	5
Arsenic	<0.00046		0.0013	0.00046	mg/L		12/14/16 08:30	12/14/16 15:26	5
Barium	<0.00049		0.0025	0.00049	mg/L		12/14/16 08:30	12/14/16 15:26	5
Beryllium	<0.00034		0.0025	0.00034	mg/L		12/14/16 08:30	12/14/16 15:26	5
Boron	<0.021		0.050	0.021	mg/L		12/14/16 08:30	12/14/16 15:26	5
Cadmium	<0.00034		0.0025	0.00034	mg/L		12/14/16 08:30	12/14/16 15:26	5
Calcium	<0.13		0.25	0.13	mg/L		12/14/16 08:30	12/14/16 15:26	5
Chromium	<0.0011		0.0025	0.0011	mg/L		12/14/16 08:30	12/14/16 15:26	5
Cobalt	<0.00040		0.0025	0.00040	mg/L		12/14/16 08:30	12/14/16 15:26	5
Lead	<0.00035		0.0013	0.00035	mg/L		12/14/16 08:30	12/14/16 15:26	5
Lithium	<0.0032		0.0050	0.0032	mg/L		12/14/16 08:30	12/14/16 15:26	5
Molybdenum	<0.00085		0.015	0.00085	mg/L		12/14/16 08:30	12/14/16 15:26	5
Selenium	<0.00024		0.0013	0.00024	mg/L		12/14/16 08:30	12/14/16 15:26	5
Thallium	<0.000085		0.00050	0.000085	mg/L		12/14/16 08:30	12/14/16 15:26	5

Lab Sample ID: LCS 400-334835/2-A
Matrix: Water
Analysis Batch: 335038

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 334835

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	Limits
Antimony	0.0500	0.0523		mg/L		105	80 - 120
Arsenic	0.0500	0.0495		mg/L		99	80 - 120
Barium	0.0500	0.0482		mg/L		96	80 - 120
Beryllium	0.0500	0.0497		mg/L		99	80 - 120
Boron	0.100	0.0976		mg/L		98	80 - 120
Cadmium	0.0500	0.0492		mg/L		98	80 - 120
Calcium	5.00	4.79		mg/L		96	80 - 120
Chromium	0.0500	0.0476		mg/L		95	80 - 120

TestAmerica Pensacola

QC Sample Results

Client: Southern Company
Project/Site: CCR Plant Scherer

TestAmerica Job ID: 400-131190-1
SDG: Ash Pond

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

Lab Sample ID: LCS 400-334835/2-A
Matrix: Water
Analysis Batch: 335038

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 334835

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Cobalt	0.0500	0.0490		mg/L		98	80 - 120
Lead	0.0500	0.0485		mg/L		97	80 - 120
Lithium	0.0500	0.0506		mg/L		101	80 - 120
Molybdenum	0.0500	0.0500		mg/L		100	80 - 120
Selenium	0.0500	0.0491		mg/L		98	80 - 120
Thallium	0.0100	0.00989		mg/L		99	80 - 120

Lab Sample ID: 400-131354-B-4-B MS ^5
Matrix: Water
Analysis Batch: 335038

Client Sample ID: Matrix Spike
Prep Type: Total Recoverable
Prep Batch: 334835

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Antimony	<0.0010		0.0500	0.0569		mg/L		114	75 - 125
Arsenic	<0.00046		0.0500	0.0505		mg/L		101	75 - 125
Barium	0.11		0.0500	0.157		mg/L		98	75 - 125
Beryllium	<0.00034		0.0500	0.0513		mg/L		103	75 - 125
Boron	0.10		0.100	0.212		mg/L		111	75 - 125
Cadmium	<0.00034		0.0500	0.0519		mg/L		104	75 - 125
Calcium	18		5.00	22.8		mg/L		89	75 - 125
Chromium	<0.0011		0.0500	0.0483		mg/L		97	75 - 125
Cobalt	<0.00040		0.0500	0.0503		mg/L		101	75 - 125
Lead	<0.00035		0.0500	0.0499		mg/L		100	75 - 125
Lithium	0.019		0.0500	0.0719		mg/L		107	75 - 125
Molybdenum	<0.00085		0.0500	0.0511		mg/L		102	75 - 125
Selenium	<0.00024		0.0500	0.0485		mg/L		97	75 - 125
Thallium	<0.00085		0.0100	0.0102		mg/L		102	75 - 125

Lab Sample ID: 400-131354-B-4-C MSD ^5
Matrix: Water
Analysis Batch: 335038

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total Recoverable
Prep Batch: 334835

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Antimony	<0.0010		0.0500	0.0565		mg/L		113	75 - 125	1	20
Arsenic	<0.00046		0.0500	0.0509		mg/L		102	75 - 125	1	20
Barium	0.11		0.0500	0.159		mg/L		102	75 - 125	1	20
Beryllium	<0.00034		0.0500	0.0499		mg/L		100	75 - 125	3	20
Boron	0.10		0.100	0.203		mg/L		101	75 - 125	5	20
Cadmium	<0.00034		0.0500	0.0525		mg/L		105	75 - 125	1	20
Calcium	18		5.00	23.1		mg/L		96	75 - 125	2	20
Chromium	<0.0011		0.0500	0.0494		mg/L		99	75 - 125	2	20
Cobalt	<0.00040		0.0500	0.0504		mg/L		101	75 - 125	0	20
Lead	<0.00035		0.0500	0.0495		mg/L		99	75 - 125	1	20
Lithium	0.019		0.0500	0.0688		mg/L		101	75 - 125	4	20
Molybdenum	<0.00085		0.0500	0.0515		mg/L		103	75 - 125	1	20
Selenium	<0.00024		0.0500	0.0476		mg/L		95	75 - 125	2	20
Thallium	<0.00085		0.0100	0.00986		mg/L		99	75 - 125	3	20

TestAmerica Pensacola

QC Sample Results

Client: Southern Company
Project/Site: CCR Plant Scherer

TestAmerica Job ID: 400-131190-1
SDG: Ash Pond

Method: 7470A - Mercury (CVAA)

Lab Sample ID: MB 400-335122/14-A
Matrix: Water
Analysis Batch: 336945

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 335122

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.000111	J	0.00020	0.000070	mg/L		12/16/16 11:16	12/29/16 15:30	1

Lab Sample ID: LCS 400-335122/15-A
Matrix: Water
Analysis Batch: 336945

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 335122

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	Limits
Mercury	0.00101	0.000896		mg/L		89	80 - 120

Lab Sample ID: 400-131172-B-1-C MS
Matrix: Water
Analysis Batch: 336945

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 335122

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	Limits
Mercury	0.00011	J B	0.00201	0.00176		mg/L		82	80 - 120

Lab Sample ID: 400-131172-B-1-D MSD
Matrix: Water
Analysis Batch: 336945

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA
Prep Batch: 335122

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Mercury	0.00011	J B	0.00201	0.00173		mg/L		81	80 - 120	1	20

Lab Sample ID: MB 400-335134/14-A
Matrix: Water
Analysis Batch: 336945

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 335134

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.000122	J	0.00020	0.000070	mg/L		12/16/16 11:16	12/29/16 14:40	1

Lab Sample ID: LCS 400-335134/15-A
Matrix: Water
Analysis Batch: 336945

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 335134

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	Limits
Mercury	0.00101	0.000920		mg/L		91	80 - 120

Lab Sample ID: 400-131190-9 MS
Matrix: Water
Analysis Batch: 336945

Client Sample ID: SGWA-3
Prep Type: Total/NA
Prep Batch: 335134

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	Limits
Mercury	0.000087	J B	0.00201	0.00177		mg/L		83	80 - 120

Lab Sample ID: 400-131190-9 MSD
Matrix: Water
Analysis Batch: 336945

Client Sample ID: SGWA-3
Prep Type: Total/NA
Prep Batch: 335134

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Mercury	0.000087	J B	0.00201	0.00171		mg/L		81	80 - 120	3	20

TestAmerica Pensacola

QC Sample Results

Client: Southern Company
Project/Site: CCR Plant Scherer

TestAmerica Job ID: 400-131190-1
SDG: Ash Pond

Lab Sample ID: MB 400-335148/14-A
Matrix: Water
Analysis Batch: 336945

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 335148

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.0000963	J	0.00020	0.000070	mg/L		12/16/16 12:09	12/29/16 12:56	1

Lab Sample ID: LCS 400-335148/15-A
Matrix: Water
Analysis Batch: 336945

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 335148

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	Limits
Mercury	0.00101	0.000949		mg/L		94	80 - 120

Lab Sample ID: 400-131190-29 MS
Matrix: Water
Analysis Batch: 336945

Client Sample ID: SGWC-18
Prep Type: Total/NA
Prep Batch: 335148

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	Limits
Mercury	0.00014	J B	0.00201	0.00180		mg/L		82	80 - 120

Lab Sample ID: 400-131190-29 MSD
Matrix: Water
Analysis Batch: 336945

Client Sample ID: SGWC-18
Prep Type: Total/NA
Prep Batch: 335148

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Mercury	0.00014	J B	0.00201	0.00178		mg/L		81	80 - 120	1	20

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

Lab Sample ID: MB 400-334496/1
Matrix: Water
Analysis Batch: 334496

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	<3.4		5.0	3.4	mg/L			12/10/16 15:53	1

Lab Sample ID: LCS 400-334496/2
Matrix: Water
Analysis Batch: 334496

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	Limits
Total Dissolved Solids	293	228		mg/L		78	78 - 122

Lab Sample ID: 400-131190-3 DU
Matrix: Water
Analysis Batch: 334496

Client Sample ID: SGWA-5
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	Limit
Total Dissolved Solids	72		72.0		mg/L		0	5

QC Sample Results

Client: Southern Company
Project/Site: CCR Plant Scherer

TestAmerica Job ID: 400-131190-1
SDG: Ash Pond

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

Lab Sample ID: 400-131190-5 DU
Matrix: Water
Analysis Batch: 334496

Client Sample ID: SGWA-1
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Total Dissolved Solids	54		54.0		mg/L		0	5

Lab Sample ID: MB 400-334497/1
Matrix: Water
Analysis Batch: 334497

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	<3.4		5.0	3.4	mg/L			12/10/16 16:29	1

Lab Sample ID: LCS 400-334497/2
Matrix: Water
Analysis Batch: 334497

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	232		mg/L		79	78 - 122

Lab Sample ID: 400-131190-15 DU
Matrix: Water
Analysis Batch: 334497

Client Sample ID: SGWA-4
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

Lab Sample ID: 400-131190-18 DU
Matrix: Water
Analysis Batch: 334497

Client Sample ID: SGWC-23
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Total Dissolved Solids	300		304		mg/L		0	5

Lab Sample ID: MB 400-334531/1
Matrix: Water
Analysis Batch: 334531

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	<3.4		5.0	3.4	mg/L			12/11/16 14:35	1

Lab Sample ID: LCS 400-334531/2
Matrix: Water
Analysis Batch: 334531

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	254		mg/L		87	78 - 122

Lab Sample ID: 400-131172-A-5 DU
Matrix: Water
Analysis Batch: 334531

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	70		70.0		mg/L		0	5

TestAmerica Pensacola

QC Sample Results

Client: Southern Company
Project/Site: CCR Plant Scherer

TestAmerica Job ID: 400-131190-1
SDG: Ash Pond

Lab Sample ID: 400-131172-A-6 DU
Matrix: Water
Analysis Batch: 334531

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	74		74.0		mg/L		0	5

Lab Sample ID: MB 400-334655/1
Matrix: Water
Analysis Batch: 334655

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	<3.4		5.0	3.4	mg/L			12/12/16 13:46	1

Lab Sample ID: LCS 400-334655/2
Matrix: Water
Analysis Batch: 334655

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	262		mg/L		89	78 - 122

Lab Sample ID: 400-131354-A-1 DU
Matrix: Water
Analysis Batch: 334655

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	300		298		mg/L		0	5

Lab Sample ID: 400-131354-A-4 DU
Matrix: Water
Analysis Batch: 334655

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	230		234		mg/L		0	5

Chain of Custody Record

Client Information Client Contact: BEN HODGES Phone: 912-250-7457 E-Mail: cheyenne.whitire@testamericainc.com		Lab P/N: Whitire, Cheyenne R Carrier Tracking No(s): 400-57303-24790.4	
Company: Southern Company Address: 241 Ralph McGill Blvd SE B10185 City: Atlanta State, Zip: GA, 30308 Phone: GPC10624814 Email: JAbraham@southernco.com Project #: 40007041 CCR - Scheduler Site: ASH POND		Job #: 400-131190 COC Preservation Codes: M - Hexane N - None O - AsNaO2 P - Na2OAS Q - Na2SO3 R - Na2SO4 S - H2SO4 G - Anchlor H - Ascorbic Acid I - Ice J - DI Water K - EDTA L - EDA Other:	
Due Date Requested: TAT Requested (days):		Analysis Requested  400-131190 COC	
PO #: GPC10624814 W/O #:		Total Number of containers: 4	
Project #: 40007041 SSOW#:		Special Instructions/Note:	
Sample Identification SGWA-24 FD-1(CAP)		Perform MS/MSD (Yes or No) N Field Filtered Sample (Yes or No) N Preservation Code: G	
Sample Date: 12-5-16 Sample Time: 15:13 Sample Type (C=Comp, G=grab): G Matrix (W=water, S=solid, O=wast/oil, B=BIOTISSUE, A=Air) Water		2540C-TDS, 300_ORGFM_28D-Chloride,Fluoride,Sulfate N D D 6020-Sb,As,Ba,Bi,Ca,Cd,Cr,Cu,Pb,Li,Mo,Se,Tl,7470A-Hg N D D 9316_Ra226,9320_Ra228,Ra228Ra228_GPPC	
Possible Hazard Identification <input checked="" type="checkbox"/> Non-Hazard <input type="checkbox"/> Flammable <input type="checkbox"/> Skin Irritant <input type="checkbox"/> Poison B <input type="checkbox"/> Unknown <input type="checkbox"/> Radiological		Sample Disposal (A fee may be assessed if samples are retained longer than 1 month) <input type="checkbox"/> Return To Client <input checked="" type="checkbox"/> Disposal By Lab <input type="checkbox"/> Archive For _____ Months	
Deliverable Requested: I, II, III, IV, Other (specify)		Special Instructions/QC Requirements:	
Empty Kit Relinquished by:		Method of Shipment:	
Relinquished by: Ben Hodges Date/Time: 12-6-16 08:15 Company: Southern		Received by: M. BATH Date/Time: 12-6-16 8:20 Company: Comer NIM	
Relinquished by: M. BATH Date/Time: 12-6-16 11:20 Company: 744		Received by: [Signature] Date/Time: 12/6/16 11:20 Company: [Signature]	
Relinquished by: [Signature] Date/Time: 12-6-16 15:00 Company: [Signature]		Received by: [Signature] Date/Time: 12/6/16 09:08:77A Company: [Signature]	
Custody Seals Intact: <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No Custody Seal No.: 4.2°C TRS		Cooler Temperature(s) and Other Remarks:	



TestAmerica Pensacola
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 Pensacola, FL 32514
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Chain of Custody Record

TestAmerica
 THE LEADER IN ENVIRONMENTAL TESTING

681-Atlanta

Client Information		Sampler: B. HODGES		Lab Piv: Whitire, Cheyenne R		Carrier Tracking No(s):		COC No: 400-57303-24790.8	
Client Contact: Joju Abraham		Phone: 912-258-7457		E-Mail: cheyenne.whitire@testamericainc.com				Page: Page 8 of 8	
Company: Southern Company								Job #:	
Address: 241 Ralph McGill Blvd SE B10185		Due Date Requested:		Analysis Requested		Total Number of Containers		Preservation Codes:	
City: Atlanta		TAT Requested (days):						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 Other:	
State/Zip: GA, 30308		PO #:						M - Hexane N - None O - AsNaO2 P - Na2O4S Q - Na2SO3 R - Na2SO3 S - H2SO4 T - TSP Dodecahydrate U - Acetone V - MCAA W - ph 4-5 Z - other (specify)	
Phone:		GPC10624814						Special Instructions/Note:	
Email: JAbraham@southernco.com		WO #:							
Project Name: CCR - Scherer		Project #:							
Site: Ash Pond		SSOW#:							
Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water, S=solid, O=wastelol)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	N	D	D
SGWA-5	12.6.16	1030	G	Water	N	1	1	2	4
FD-2(CAP)	12.6.16	-	G	Water	N	1	1	1	3
SGWA-1	12.6.16	1053	G	Water	N	1	1	2	4
SGWC-7	12.6.16	1201	G	W	N	1	1	1	3
SGWA.2	12.6.16	1209	G	W	N	1	1	1	3
SGWA-25	12.6.16	1300	G	W	N	1	1	1	3
SGWA-3	12.6.16	1310	G	W	N	1	1	1	3
SGWC-8	12.6.16	1307	G	W	N	1	1	1	3
SGWC-11	12.6.16	1423	G	W	N	1	1	1	3
SGWC-12	12.6.16	1511	G	W	N	1	1	1	3
FD-3(CAP)	12.6.16	-	G	W	N	1	1	1	3
Possible Hazard Identification <input checked="" type="checkbox"/> Non-Hazard <input type="checkbox"/> Flammable <input type="checkbox"/> Skin Irritant <input type="checkbox"/> Poison B <input type="checkbox"/> Unknown <input type="checkbox"/> Radiological Deliverable Requested: I, II, III, IV, Other (specify)									
Sample Disposal (A fee may be assessed if samples are retained longer than 1 month) <input type="checkbox"/> Return To Client <input checked="" type="checkbox"/> Disposal By Lab <input type="checkbox"/> Archive For _____ Months									
Special Instructions/QC Requirements:									
Empty Kit Relinquished by: Date: _____ Time: _____ Method of Shipment: _____									
Relinquished by: <i>Ben Han</i> Date/Time: <i>12/7/16 0810</i> Company: <i>GO/DC</i>									
Relinquished by: <i>T Elrod</i> Date/Time: <i>12-7-16 1030</i> Company: <i>Now</i>									
Relinquished by: <i>T Elrod</i> Date/Time: <i>12-7-16 1032</i> Company: <i>VA</i>									
Custody Seals Intact: <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> No <input type="checkbox"/> No <input type="checkbox"/> No Cooler Temperature(s) °C and Other Remarks: <i>1.0°C, 4.9°C 2025</i>									



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Chain of Custody Record

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681-Atlanta

Client Information Joju Abraham	Lab PM: Whitmore, Chyenme R	Carrier Tracking No(s):	COOC No: 400-57303-24790
Company: Southern Company	Phone: 812-258-7467		Page:
Address: 241 Ralph McGill Blvd SE B10185 City: Atlanta State, Zip: GA, 30308	E-Mail: chyenme.whitmore@testamericainc.com		Job #:

Due Date Requested:	Analysis Requested	
TAT Requested (days):		
PO #: GPC10981866		
WC #:		
Project #: 40007041		
SSOW #:		

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water, S=solid, O=organic, I=Inorganic, A=air)	Special Instructions/Note:
SGWC-10	12-6-16	1501	G	Water	
SG WA-4	12-6-16	1425	G	Water	
SG WC-6	12-6-16	1618	G	Water	
SG WC-13	12-6-16	1600	G	Water	

<input type="checkbox"/> Return To Client <input checked="" type="checkbox"/> Disposal By Lab <input type="checkbox"/> Archive For _____ Months	
Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)	
Special Instructions/QC-Requirements:	
Method of Shipment:	
Relinquished by: <i>[Signature]</i> Date: 12/7/16 0810 Company: Golden	Received by: T Elrod Date/Time: 12-7-16 0810 Company: CNOW
Relinquished by: T Elrod Date/Time: 12-7-16 1030 Company: CNOW	Received by: <i>[Signature]</i> Date/Time: 12-7-16 1030 Company: JPA
Relinquished by: <i>[Signature]</i> Date/Time: 12-7-16 1032 Company:	Received by: <i>[Signature]</i> Date/Time: 12-7-16 1026 Company:
Cooler Temperature(s) °C and Other Remarks:	

Page 76 of 79

12/31/2016

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Chain of Custody Record

TestAmerica
 THE LEADER IN ENVIRONMENTAL TESTING

681-Atlanta

Client Information Sampler: Ben Hodges Phone: 912-258-7457 Client Contact: Jolij Abraham Company: Southern Company		Lab PM: Whitmire, Cheyenne R E-Mail: cheyenne.whitmire@testamericainc.com		Carrier Tracking No(s): COC No: 400-57303-24790.8 Page: Page 8 of 8 Job #:						
Address: 241 Ralph McGill Blvd SE B10185 City: Atlanta State, Zip: GA, 30308 PO #: GPC10624814 WO #:		Due Date Requested: TAT Requested (days): Project #: 40007041 Project Name: CCR - Scherer Site: Ash Pond		Analysis Requested 2940C-TDS, 300 ORGM, 280 Chloride, Fluoride, Sulfate 6020-Sp, As, Ba, B, Ba, Ca, Cd, Cr, Co, Pb, Li, Mn, Se, Tl, 7470A-Hg 9316, Ra226, 9320, Ra228, Ra228Ra226, GPC						
Sample Identification Sample ID Sample Date Sample Time Sample Type (C=Comp, G=Grab) Matrix (W=Water, S=Solid, O=Water/Oil, BT=Tissue, A=Air) Preservation Code: Field Filtered Sample (Yes or No)		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 Other:		Special Instructions/Note: Total Number of Containers						
SGWC-23	12/7/16	1008	G	Water	N	1	1	1	3	
FB-1(AP)	12/7/16	1005	G	Water	N	1	1	1	3	
SGWC-17	12/7/16	1010	G	Water	N	1	1	1	3	
FB-2(AP)	12/7/16	0950	G	Water	N	1	1	1	3	
SGWC-14	12/7/16	1013	G	Water	N	1	1	1	3	
SGWC-22	12/7/16	1056	G	Water	N	1	1	1	3	
FB-3(AP)	12/7/16	1100	G	Water	N	1	1	1	3	
SGWC-21	12/7/16	1156	G	Water	N	1	1	1	3	
SGWC-15	12/7/16	1157	G	Water	N	1	1	1	3	
SGWC-16	12/7/16	1520	G	Water	N	1	1	1	3	
SGWC-9	12/7/16	1516	G	Water	N	1	1	1	3	
SGWC-18	12/7/16	1135	G	Water	N	1	1	1	3	
Possible Hazard Identification <input checked="" type="checkbox"/> Non-Hazard <input type="checkbox"/> Flammable <input type="checkbox"/> Skin Irritant <input type="checkbox"/> Poison B <input type="checkbox"/> Unknown <input type="checkbox"/> Radiological Deliverable Requested: I, II, III, IV, Other (specify)										
Empty Kit Relinquished by:										
Relinquished by: J Elrod Date: 12/8/16 0810 Company: Colder		Received by: J Elrod Date: 12-8-16 1038 Company: C Now		Date: 12-8-16 0810 Company: C Now						
Relinquished by: J Elrod Date: 12-8-16 1040 Company: IA		Received by: J Elrod Date: 12-8-16 0911 Company: IA		Date: 12-8-16 1038 Company: IA						
Custody Seal No.: Custody Seal Intact: <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No Cooler Temperature(s) °C and Other Remarks: 0-4.0-0.0°C IPUS										



Login Sample Receipt Checklist

Client: Southern Company

Job Number: 400-131190-1

SDG Number: Ash Pond

Login Number: 131190

List Number: 1

Creator: Siddoway, Benjamin

List Source: TestAmerica Pensacola

Question	Answer	Comment
Radioactivity wasn't checked or is \leq background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	N/A	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	4.2°C, 1.2°C, 4.8°C, 0.1°C, 0.0°C IR-5
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 <math><6\text{mm}</math> (1/4").	N/A	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

Certification Summary

Client: Southern Company
Project/Site: CCR Plant Scherer

TestAmerica Job ID: 400-131190-1
SDG: Ash Pond

Laboratory: TestAmerica Pensacola

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

Authority	Program	EPA Region	Certification ID	Expiration Date
Alabama	State Program	4	40150	06-30-17
Arizona	State Program	9	AZ0710	01-11-18
Arkansas DEQ	State Program	6	88-0689	09-01-17
California	ELAP	9	2510	03-31-18
Florida	NELAP	4	E81010	06-30-17
Georgia	State Program	4	N/A	06-30-17
Illinois	NELAP	5	200041	10-09-17
Iowa	State Program	7	367	08-01-18
Kansas	NELAP	7	E-10253	10-31-17
Kentucky (UST)	State Program	4	53	06-30-17
Kentucky (WW)	State Program	4	98030	12-31-16
Louisiana	NELAP	6	30976	06-30-17
Louisiana (DW)	NELAP Secondary AB	6	LA170005	12-31-17
Maryland	State Program	3	233	09-30-17
Massachusetts	State Program	1	M-FL094	06-30-17
Michigan	State Program	5	9912	05-06-17
New Jersey	NELAP	2	FL006	06-30-17
North Carolina (WW/SW)	State Program	4	314	12-31-17
Oklahoma	State Program	6	9810	08-31-17
Pennsylvania	NELAP	3	68-00467	01-31-17
Rhode Island	State Program	1	LAO00307	12-30-16
South Carolina	State Program	4	96026	06-30-17
Tennessee	State Program	4	TN02907	06-30-17
Texas	NELAP	6	T104704286-16-10	09-30-17
USDA	Federal		P330-16-00172	05-24-19
Virginia	NELAP	3	460166	06-14-17
Washington	State Program	10	C915	05-15-17
West Virginia DEP	State Program	3	136	06-30-17

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

TestAmerica Laboratories, Inc.

TestAmerica Pensacola

3355 McLemore Drive

Pensacola, FL 32514

Tel: (850)474-1001

TestAmerica Job ID: 400-131190-2

TestAmerica Sample Delivery Group: Ash Pond

Client Project/Site: CCR Plant Scherer

For:

Southern Company

241 Ralph McGill Blvd SE

B10185

Atlanta, Georgia 30308

Attn: Joju Abraham



Authorized for release by:

1/29/2017 11:14:59 AM

Cheyenne Whitmire, Project Manager II

(850)471-6222

cheyenne.whitmire@testamericainc.com

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The test results in this report meet all 2003 NELAC and 2009 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.

1

2

3

4

5

6

7

8

9

10

11

12



Table of Contents

Cover Page	1
Table of Contents	2
Method Summary	3
Sample Summary	4
Client Sample Results	5
Definitions	34
Chronicle	35
QC Association	43
QC Sample Results	45
Chain of Custody	52
Receipt Checklists	56
Certification Summary	57

Method Summary

Client: Southern Company
Project/Site: CCR Plant Scherer

TestAmerica Job ID: 400-131190-2
SDG: Ash Pond

Method	Method Description	Protocol	Laboratory
9315	Radium-226 (GFPC)	SW846	TAL SL
9320	Radium-228 (GFPC)	SW846	TAL SL
Ra226_Ra228	Combined Radium-226 and Radium-228	TAL-STL	TAL SL

Protocol References:

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:

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



Sample Summary

Client: Southern Company
Project/Site: CCR Plant Scherer

TestAmerica Job ID: 400-131190-2
SDG: Ash Pond

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
400-131190-1	SGWA-24	Water	12/05/16 15:13	12/07/16 09:08
400-131190-2	FD-1 (AP)	Water	12/05/16 00:00	12/07/16 09:08
400-131190-3	SGWA-5	Water	12/06/16 10:30	12/08/16 10:26
400-131190-4	FD-2 (AP)	Water	12/06/16 00:00	12/08/16 10:26
400-131190-5	SGWA-1	Water	12/06/16 10:53	12/08/16 10:26
400-131190-6	SGWC-7	Water	12/06/16 12:01	12/08/16 10:26
400-131190-7	SGWA-2	Water	12/06/16 12:09	12/08/16 10:26
400-131190-8	SGWA-25	Water	12/06/16 13:00	12/08/16 10:26
400-131190-9	SGWA-3	Water	12/06/16 13:10	12/08/16 10:26
400-131190-10	SGWC-8	Water	12/06/16 13:07	12/08/16 10:26
400-131190-11	SGWC-11	Water	12/06/16 14:23	12/08/16 10:26
400-131190-12	SGWC-12	Water	12/06/16 15:11	12/08/16 10:26
400-131190-13	FD-3 (AP)	Water	12/06/16 00:00	12/08/16 10:26
400-131190-14	SGWC-10	Water	12/06/16 15:01	12/08/16 10:26
400-131190-15	SGWA-4	Water	12/06/16 14:25	12/08/16 10:26
400-131190-16	SGWC-6	Water	12/06/16 16:18	12/08/16 10:26
400-131190-17	SGWC-13	Water	12/06/16 16:00	12/08/16 10:26
400-131190-18	SGWC-23	Water	12/07/16 10:08	12/09/16 09:11
400-131190-19	FB-1 (AP)	Water	12/07/16 10:05	12/09/16 09:11
400-131190-20	SGWC-17	Water	12/07/16 10:10	12/09/16 09:11
400-131190-21	FB-2 (AP)	Water	12/07/16 09:50	12/09/16 09:11
400-131190-22	SGWC-14	Water	12/07/16 10:13	12/09/16 09:11
400-131190-23	SGWC-22	Water	12/07/16 10:56	12/09/16 09:11
400-131190-24	FB-3 (AP)	Water	12/07/16 11:00	12/09/16 09:11
400-131190-25	SGWC-21	Water	12/07/16 11:56	12/09/16 09:11
400-131190-26	SGWC-15	Water	12/07/16 11:57	12/09/16 09:11
400-131190-27	SGWC-16	Water	12/07/16 15:20	12/09/16 09:11
400-131190-28	SGWC-9	Water	12/07/16 15:16	12/09/16 09:11
400-131190-29	SGWC-18	Water	12/07/16 11:35	12/09/16 09:11

Client Sample Results

Client: Southern Company
Project/Site: CCR Plant Scherer

TestAmerica Job ID: 400-131190-2
SDG: Ash Pond

Client Sample ID: SGWA-24

Lab Sample ID: 400-131190-1

Date Collected: 12/05/16 15:13

Matrix: Water

Date Received: 12/07/16 09:08

Method: 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.132	U	0.166	0.167	1.00	0.274	pCi/L	12/15/16 10:16	01/20/17 08:52	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	89.2		40 - 110					12/15/16 10:16	01/20/17 08:52	1

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.101	U	0.221	0.222	1.00	0.380	pCi/L	12/15/16 10:16	01/19/17 18:28	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	89.2		40 - 110					12/15/16 10:16	01/19/17 18:28	1
Y Carrier	93.8		40 - 110					12/15/16 10:16	01/19/17 18:28	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	0.233	U	0.277	0.277	5.00	0.380	pCi/L		01/24/17 09:40	1

Client Sample Results

Client: Southern Company
Project/Site: CCR Plant Scherer

TestAmerica Job ID: 400-131190-2
SDG: Ash Pond

Client Sample ID: FD-1 (AP)

Lab Sample ID: 400-131190-2

Date Collected: 12/05/16 00:00

Matrix: Water

Date Received: 12/07/16 09:08

Method: 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	-0.0817	U	0.163	0.163	1.00	0.384	pCi/L	12/15/16 10:16	01/20/17 08:53	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	70.7		40 - 110					12/15/16 10:16	01/20/17 08:53	1

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.173	U	0.236	0.236	1.00	0.394	pCi/L	12/15/16 10:16	01/19/17 18:28	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	70.7		40 - 110					12/15/16 10:16	01/19/17 18:28	1
Y Carrier	98.7		40 - 110					12/15/16 10:16	01/19/17 18:28	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	0.0910	U	0.287	0.287	5.00	0.394	pCi/L		01/24/17 09:40	1

Client Sample Results

Client: Southern Company
Project/Site: CCR Plant Scherer

TestAmerica Job ID: 400-131190-2
SDG: Ash Pond

Client Sample ID: SGWA-5

Lab Sample ID: 400-131190-3

Date Collected: 12/06/16 10:30

Matrix: Water

Date Received: 12/08/16 10:26

Method: 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	0.196	0.196	1.00	0.333	pCi/L	12/14/16 10:37	01/21/17 11:06	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	69.2		40 - 110					12/14/16 10:37	01/21/17 11:06	1

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.250	U	0.300	0.301	1.00	0.496	pCi/L	12/14/16 12:54	01/20/17 13:34	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	77.1		40 - 110					12/14/16 12:54	01/20/17 13:34	1
Y Carrier	96.4		40 - 110					12/14/16 12:54	01/20/17 13:34	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	0.387	U	0.359	0.360	5.00	0.496	pCi/L		01/24/17 09:40	1

Client Sample Results

Client: Southern Company
Project/Site: CCR Plant Scherer

TestAmerica Job ID: 400-131190-2
SDG: Ash Pond

Client Sample ID: FD-2 (AP)
Date Collected: 12/06/16 00:00
Date Received: 12/08/16 10:26

Lab Sample ID: 400-131190-4
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	0.0726	U	0.195	0.195	1.00	0.362	pCi/L	12/14/16 10:37	01/21/17 11:06	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	67.5		40 - 110					12/14/16 10:37	01/21/17 11:06	1

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.416	U	0.293	0.295	1.00	0.455	pCi/L	12/14/16 12:54	01/20/17 13:34	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	75.2		40 - 110					12/14/16 12:54	01/20/17 13:34	1
Y Carrier	92.3		40 - 110					12/14/16 12:54	01/20/17 13:34	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	0.489		0.352	0.354	5.00	0.455	pCi/L		01/24/17 09:40	1

Client Sample Results

Client: Southern Company
Project/Site: CCR Plant Scherer

TestAmerica Job ID: 400-131190-2
SDG: Ash Pond

Client Sample ID: SGWA-1

Lab Sample ID: 400-131190-5

Date Collected: 12/06/16 10:53

Matrix: Water

Date Received: 12/08/16 10:26

Method: 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.0394	U	0.156	0.156	1.00	0.300	pCi/L	12/14/16 10:37	01/21/17 12:40	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	83.2		40 - 110					12/14/16 10:37	01/21/17 12:40	1

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.307	U	0.265	0.267	1.00	0.425	pCi/L	12/14/16 12:54	01/20/17 13:34	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	92.7		40 - 110					12/14/16 12:54	01/20/17 13:34	1
Y Carrier	89.3		40 - 110					12/14/16 12:54	01/20/17 13:34	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	0.346	U	0.308	0.309	5.00	0.425	pCi/L		01/24/17 09:40	1

Client Sample Results

Client: Southern Company
Project/Site: CCR Plant Scherer

TestAmerica Job ID: 400-131190-2
SDG: Ash Pond

Client Sample ID: SGWC-7

Lab Sample ID: 400-131190-6

Date Collected: 12/06/16 12:01

Matrix: Water

Date Received: 12/08/16 10:26

Method: 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.142	U	0.202	0.202	1.00	0.342	pCi/L	12/14/16 10:37	01/21/17 11:08	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	80.3		40 - 110					12/14/16 10:37	01/21/17 11:08	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	0.234	0.234	1.00	0.381	pCi/L	12/14/16 12:54	01/20/17 13:34	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	89.5		40 - 110					12/14/16 12:54	01/20/17 13:34	1
Y Carrier	94.2		40 - 110					12/14/16 12:54	01/20/17 13:34	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	0.368	U	0.309	0.310	5.00	0.381	pCi/L		01/24/17 09:40	1

Client Sample Results

Client: Southern Company
Project/Site: CCR Plant Scherer

TestAmerica Job ID: 400-131190-2
SDG: Ash Pond

Client Sample ID: SGWA-2

Lab Sample ID: 400-131190-7

Date Collected: 12/06/16 12:09

Matrix: Water

Date Received: 12/08/16 10:26

Method: 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	0.159	0.159	1.00	0.306	pCi/L	12/14/16 10:37	01/21/17 11:08	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	79.2		40 - 110					12/14/16 10:37	01/21/17 11:08	1

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.250	U	0.243	0.244	1.00	0.394	pCi/L	12/14/16 12:54	01/20/17 13:35	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	88.3		40 - 110					12/14/16 12:54	01/20/17 13:35	1
Y Carrier	89.0		40 - 110					12/14/16 12:54	01/20/17 13:35	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	0.290	U	0.291	0.291	5.00	0.394	pCi/L		01/24/17 09:40	1

Client Sample Results

Client: Southern Company
Project/Site: CCR Plant Scherer

TestAmerica Job ID: 400-131190-2
SDG: Ash Pond

Client Sample ID: SGWA-25

Lab Sample ID: 400-131190-8

Date Collected: 12/06/16 13:00

Matrix: Water

Date Received: 12/08/16 10:26

Method: 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.0333	U	0.168	0.168	1.00	0.325	pCi/L	12/14/16 10:37	01/21/17 11:08	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	80.6		40 - 110					12/14/16 10:37	01/21/17 11:08	1

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.477		0.259	0.263	1.00	0.382	pCi/L	12/14/16 12:54	01/20/17 13:35	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	89.8		40 - 110					12/14/16 12:54	01/20/17 13:35	1
Y Carrier	85.2		40 - 110					12/14/16 12:54	01/20/17 13:35	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	0.510		0.309	0.312	5.00	0.382	pCi/L		01/24/17 09:40	1

Client Sample Results

Client: Southern Company
Project/Site: CCR Plant Scherer

TestAmerica Job ID: 400-131190-2
SDG: Ash Pond

Client Sample ID: SGWA-3

Lab Sample ID: 400-131190-9

Date Collected: 12/06/16 13:10

Matrix: Water

Date Received: 12/08/16 10:26

Method: 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.0906	U	0.175	0.176	1.00	0.315	pCi/L	12/14/16 10:37	01/21/17 11:08	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	71.5		40 - 110					12/14/16 10:37	01/21/17 11:08	1

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.130	U	0.269	0.269	1.00	0.459	pCi/L	12/14/16 12:54	01/20/17 13:35	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	79.7		40 - 110					12/14/16 12:54	01/20/17 13:35	1
Y Carrier	91.6		40 - 110					12/14/16 12:54	01/20/17 13:35	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	0.221	U	0.321	0.321	5.00	0.459	pCi/L		01/24/17 09:40	1

Client Sample Results

Client: Southern Company
Project/Site: CCR Plant Scherer

TestAmerica Job ID: 400-131190-2
SDG: Ash Pond

Client Sample ID: SGWC-8

Lab Sample ID: 400-131190-10

Date Collected: 12/06/16 13:07

Matrix: Water

Date Received: 12/08/16 10:26

Method: 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.737		0.288	0.296	1.00	0.305	pCi/L	12/14/16 10:37	01/21/17 11:08	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	82.3		40 - 110					12/14/16 10:37	01/21/17 11:08	1

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	1.52		0.321	0.350	1.00	0.366	pCi/L	12/14/16 12:54	01/20/17 13:35	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	91.7		40 - 110					12/14/16 12:54	01/20/17 13:35	1
Y Carrier	99.1		40 - 110					12/14/16 12:54	01/20/17 13:35	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	2.25		0.431	0.458	5.00	0.366	pCi/L		01/24/17 09:40	1

Client Sample Results

Client: Southern Company
Project/Site: CCR Plant Scherer

TestAmerica Job ID: 400-131190-2
SDG: Ash Pond

Client Sample ID: SGWC-11

Lab Sample ID: 400-131190-11

Date Collected: 12/06/16 14:23

Matrix: Water

Date Received: 12/08/16 10:26

Method: 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.220	U	0.185	0.186	1.00	0.270	pCi/L	12/14/16 10:37	01/21/17 11:08	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	84.9		40 - 110					12/14/16 10:37	01/21/17 11:08	1

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.218	U	0.215	0.216	1.00	0.348	pCi/L	12/14/16 12:54	01/20/17 13:35	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	94.6		40 - 110					12/14/16 12:54	01/20/17 13:35	1
Y Carrier	90.1		40 - 110					12/14/16 12:54	01/20/17 13:35	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	0.438		0.283	0.285	5.00	0.348	pCi/L		01/24/17 09:40	1

Client Sample Results

Client: Southern Company
Project/Site: CCR Plant Scherer

TestAmerica Job ID: 400-131190-2
SDG: Ash Pond

Client Sample ID: SGWC-12

Lab Sample ID: 400-131190-12

Date Collected: 12/06/16 15:11

Matrix: Water

Date Received: 12/08/16 10:26

Method: 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.0619	U	0.154	0.154	1.00	0.287	pCi/L	12/14/16 10:37	01/21/17 11:08	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	82.1		40 - 110					12/14/16 10:37	01/21/17 11:08	1

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	-0.00437	U	0.186	0.186	1.00	0.339	pCi/L	12/14/16 12:54	01/20/17 13:35	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	91.4		40 - 110					12/14/16 12:54	01/20/17 13:35	1
Y Carrier	92.3		40 - 110					12/14/16 12:54	01/20/17 13:35	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	0.0575	U	0.241	0.242	5.00	0.339	pCi/L		01/24/17 09:40	1

Client Sample Results

Client: Southern Company
Project/Site: CCR Plant Scherer

TestAmerica Job ID: 400-131190-2
SDG: Ash Pond

Client Sample ID: FD-3 (AP)

Lab Sample ID: 400-131190-13

Date Collected: 12/06/16 00:00

Matrix: Water

Date Received: 12/08/16 10:26

Method: 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.0791	U	0.157	0.157	1.00	0.283	pCi/L	12/14/16 10:37	01/21/17 11:09	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	81.5		40 - 110					12/14/16 10:37	01/21/17 11:09	1

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.231	U	0.216	0.217	1.00	0.347	pCi/L	12/14/16 12:54	01/20/17 13:35	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	90.8		40 - 110					12/14/16 12:54	01/20/17 13:35	1
Y Carrier	95.3		40 - 110					12/14/16 12:54	01/20/17 13:35	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	0.310	U	0.267	0.268	5.00	0.347	pCi/L		01/24/17 09:40	1

Client Sample Results

Client: Southern Company
Project/Site: CCR Plant Scherer

TestAmerica Job ID: 400-131190-2
SDG: Ash Pond

Client Sample ID: SGWC-10

Lab Sample ID: 400-131190-14

Date Collected: 12/06/16 15:01

Matrix: Water

Date Received: 12/08/16 10:26

Method: 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.130	U	0.182	0.183	1.00	0.309	pCi/L	12/14/16 10:37	01/21/17 12:25	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	83.8		40 - 110					12/14/16 10:37	01/21/17 12:25	1

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.365		0.232	0.235	1.00	0.355	pCi/L	12/14/16 12:54	01/20/17 13:35	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	93.3		40 - 110					12/14/16 12:54	01/20/17 13:35	1
Y Carrier	95.3		40 - 110					12/14/16 12:54	01/20/17 13:35	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	0.496		0.295	0.297	5.00	0.355	pCi/L		01/24/17 09:40	1

Client Sample Results

Client: Southern Company
Project/Site: CCR Plant Scherer

TestAmerica Job ID: 400-131190-2
SDG: Ash Pond

Client Sample ID: SGWA-4

Lab Sample ID: 400-131190-15

Date Collected: 12/06/16 14:25

Matrix: Water

Date Received: 12/08/16 10:26

Method: 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.0135	U	0.163	0.163	1.00	0.329	pCi/L	12/14/16 10:37	01/21/17 11:01	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	73.8		40 - 110					12/14/16 10:37	01/21/17 11:01	1

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.238	U	0.249	0.250	1.00	0.405	pCi/L	12/14/16 12:54	01/20/17 13:35	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	82.2		40 - 110					12/14/16 12:54	01/20/17 13:35	1
Y Carrier	89.3		40 - 110					12/14/16 12:54	01/20/17 13:35	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	0.251	U	0.298	0.298	5.00	0.405	pCi/L		01/24/17 09:40	1

Client Sample Results

Client: Southern Company
Project/Site: CCR Plant Scherer

TestAmerica Job ID: 400-131190-2
SDG: Ash Pond

Client Sample ID: SGWC-6

Lab Sample ID: 400-131190-16

Date Collected: 12/06/16 16:18

Matrix: Water

Date Received: 12/08/16 10:26

Method: 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	-0.0408	U	0.137	0.137	1.00	0.305	pCi/L	12/14/16 10:37	01/21/17 11:01	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	82.9		40 - 110					12/14/16 10:37	01/21/17 11:01	1

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.162	U	0.215	0.216	1.00	0.359	pCi/L	12/14/16 12:54	01/20/17 13:35	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	92.4		40 - 110					12/14/16 12:54	01/20/17 13:35	1
Y Carrier	93.1		40 - 110					12/14/16 12:54	01/20/17 13:35	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	0.122	U	0.255	0.256	5.00	0.359	pCi/L		01/24/17 09:40	1

Client Sample Results

Client: Southern Company
Project/Site: CCR Plant Scherer

TestAmerica Job ID: 400-131190-2
SDG: Ash Pond

Client Sample ID: SGWC-13

Lab Sample ID: 400-131190-17

Date Collected: 12/06/16 16:00

Matrix: Water

Date Received: 12/08/16 10:26

Method: 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.376		0.231	0.234	1.00	0.302	pCi/L	12/14/16 10:37	01/21/17 11:02	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	81.5		40 - 110					12/14/16 10:37	01/21/17 11:02	1

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.527		0.266	0.270	1.00	0.394	pCi/L	12/14/16 12:54	01/20/17 13:35	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	90.8		40 - 110					12/14/16 12:54	01/20/17 13:35	1
Y Carrier	98.3		40 - 110					12/14/16 12:54	01/20/17 13:35	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	0.903		0.352	0.357	5.00	0.394	pCi/L		01/24/17 09:40	1

Client Sample Results

Client: Southern Company
Project/Site: CCR Plant Scherer

TestAmerica Job ID: 400-131190-2
SDG: Ash Pond

Client Sample ID: SGWC-23

Lab Sample ID: 400-131190-18

Date Collected: 12/07/16 10:08

Matrix: Water

Date Received: 12/09/16 09:11

Method: 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.243	U	0.212	0.213	1.00	0.316	pCi/L	12/14/16 10:37	01/21/17 11:01	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	73.2		40 - 110					12/14/16 10:37	01/21/17 11:01	1

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.212	U	0.256	0.257	1.00	0.423	pCi/L	12/14/16 12:54	01/20/17 13:36	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	81.6		40 - 110					12/14/16 12:54	01/20/17 13:36	1
Y Carrier	92.7		40 - 110					12/14/16 12:54	01/20/17 13:36	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	0.455		0.333	0.334	5.00	0.423	pCi/L		01/24/17 09:40	1

Client Sample Results

Client: Southern Company
Project/Site: CCR Plant Scherer

TestAmerica Job ID: 400-131190-2
SDG: Ash Pond

Client Sample ID: FB-1 (AP)

Lab Sample ID: 400-131190-19

Date Collected: 12/07/16 10:05

Matrix: Water

Date Received: 12/09/16 09:11

Method: 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.123	U	0.175	0.176	1.00	0.298	pCi/L	12/14/16 10:37	01/21/17 11:02	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	74.4		40 - 110					12/14/16 10:37	01/21/17 11:02	1

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.819	U	0.548	0.554	1.00	0.838	pCi/L	12/14/16 12:54	01/20/17 13:36	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	82.9		40 - 110					12/14/16 12:54	01/20/17 13:36	1
Y Carrier	40.4		40 - 110					12/14/16 12:54	01/20/17 13:36	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	0.942		0.576	0.581	5.00	0.838	pCi/L		01/24/17 09:40	1

Client Sample Results

Client: Southern Company
Project/Site: CCR Plant Scherer

TestAmerica Job ID: 400-131190-2
SDG: Ash Pond

Client Sample ID: SGWC-17

Lab Sample ID: 400-131190-20

Date Collected: 12/07/16 10:10

Matrix: Water

Date Received: 12/09/16 09:11

Method: 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.0976	U	0.192	0.192	1.00	0.342	pCi/L	12/14/16 10:37	01/21/17 11:11	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	83.8		40 - 110					12/14/16 10:37	01/21/17 11:11	1

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.142	U	0.283	0.283	1.00	0.480	pCi/L	12/14/16 12:54	01/20/17 13:36	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	93.3		40 - 110					12/14/16 12:54	01/20/17 13:36	1
Y Carrier	91.2		40 - 110					12/14/16 12:54	01/20/17 13:36	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	0.239	U	0.342	0.342	5.00	0.480	pCi/L		01/24/17 09:40	1

Client Sample Results

Client: Southern Company
Project/Site: CCR Plant Scherer

TestAmerica Job ID: 400-131190-2
SDG: Ash Pond

Client Sample ID: FB-2 (AP)

Lab Sample ID: 400-131190-21

Date Collected: 12/07/16 09:50

Matrix: Water

Date Received: 12/09/16 09:11

Method: 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.0902	U	0.181	0.181	1.00	0.324	pCi/L	12/14/16 10:37	01/21/17 11:02	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	89.5		40 - 110					12/14/16 10:37	01/21/17 11:02	1

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.128	U	0.246	0.246	1.00	0.416	pCi/L	12/14/16 12:54	01/20/17 13:25	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	99.7		40 - 110					12/14/16 12:54	01/20/17 13:25	1
Y Carrier	96.8		40 - 110					12/14/16 12:54	01/20/17 13:25	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	0.218	U	0.305	0.306	5.00	0.416	pCi/L		01/24/17 09:40	1

Client Sample Results

Client: Southern Company
Project/Site: CCR Plant Scherer

TestAmerica Job ID: 400-131190-2
SDG: Ash Pond

Client Sample ID: SGWC-14

Lab Sample ID: 400-131190-22

Date Collected: 12/07/16 10:13

Matrix: Water

Date Received: 12/09/16 09:11

Method: 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.111	U	0.187	0.188	1.00	0.328	pCi/L	12/14/16 10:37	01/21/17 11:02	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	83.8		40 - 110					12/14/16 10:37	01/21/17 11:02	1

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.590		0.270	0.275	1.00	0.393	pCi/L	12/14/16 12:54	01/20/17 13:25	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	93.3		40 - 110					12/14/16 12:54	01/20/17 13:25	1
Y Carrier	96.1		40 - 110					12/14/16 12:54	01/20/17 13:25	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	0.701		0.329	0.333	5.00	0.393	pCi/L		01/24/17 09:40	1

Client Sample Results

Client: Southern Company
Project/Site: CCR Plant Scherer

TestAmerica Job ID: 400-131190-2
SDG: Ash Pond

Client Sample ID: SGWC-22

Lab Sample ID: 400-131190-23

Date Collected: 12/07/16 10:56

Matrix: Water

Date Received: 12/09/16 09:11

Method: 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.0673	U	0.178	0.178	1.00	0.337	pCi/L	12/16/16 13:41	01/19/17 21:58	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	84.6		40 - 110					12/16/16 13:41	01/19/17 21:58	1

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.251	U	0.260	0.261	1.00	0.423	pCi/L	12/16/16 14:14	01/19/17 14:35	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	84.6		40 - 110					12/16/16 14:14	01/19/17 14:35	1
Y Carrier	98.7		40 - 110					12/16/16 14:14	01/19/17 14:35	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	0.318	U	0.315	0.316	5.00	0.423	pCi/L		01/24/17 09:40	1

Client Sample Results

Client: Southern Company
Project/Site: CCR Plant Scherer

TestAmerica Job ID: 400-131190-2
SDG: Ash Pond

Client Sample ID: FB-3 (AP)

Lab Sample ID: 400-131190-24

Date Collected: 12/07/16 11:00

Matrix: Water

Date Received: 12/09/16 09:11

Method: 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	0.162	0.162	1.00	0.339	pCi/L	12/16/16 13:41	01/19/17 21:58	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	88.3		40 - 110					12/16/16 13:41	01/19/17 21:58	1

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.130	U	0.233	0.233	1.00	0.394	pCi/L	12/16/16 14:14	01/19/17 14:35	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	88.3		40 - 110					12/16/16 14:14	01/19/17 14:35	1
Y Carrier	105		40 - 110					12/16/16 14:14	01/19/17 14:35	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	0.130	U	0.284	0.284	5.00	0.394	pCi/L		01/24/17 09:40	1

Client Sample Results

Client: Southern Company
Project/Site: CCR Plant Scherer

TestAmerica Job ID: 400-131190-2
SDG: Ash Pond

Client Sample ID: SGWC-21

Lab Sample ID: 400-131190-25

Date Collected: 12/07/16 11:56

Matrix: Water

Date Received: 12/09/16 09:11

Method: 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.261	U	0.241	0.242	1.00	0.367	pCi/L	12/16/16 13:41	01/19/17 21:59	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	76.9		40 - 110					12/16/16 13:41	01/19/17 21:59	1

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.636		0.295	0.301	1.00	0.428	pCi/L	12/16/16 14:14	01/19/17 14:35	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	76.9		40 - 110					12/16/16 14:14	01/19/17 14:35	1
Y Carrier	99.1		40 - 110					12/16/16 14:14	01/19/17 14:35	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	0.897		0.381	0.386	5.00	0.428	pCi/L		01/24/17 09:40	1

Client Sample Results

Client: Southern Company
Project/Site: CCR Plant Scherer

TestAmerica Job ID: 400-131190-2
SDG: Ash Pond

Client Sample ID: SGWC-15

Lab Sample ID: 400-131190-26

Date Collected: 12/07/16 11:57

Matrix: Water

Date Received: 12/09/16 09:11

Method: 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.00751	U	0.182	0.182	1.00	0.371	pCi/L	12/16/16 13:41	01/19/17 21:59	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	83.5		40 - 110					12/16/16 13:41	01/19/17 21:59	1

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.367	U	0.281	0.283	1.00	0.444	pCi/L	12/16/16 14:14	01/19/17 14:35	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	83.5		40 - 110					12/16/16 14:14	01/19/17 14:35	1
Y Carrier	93.5		40 - 110					12/16/16 14:14	01/19/17 14:35	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	0.375	U	0.335	0.336	5.00	0.444	pCi/L		01/24/17 09:40	1

Client Sample Results

Client: Southern Company
Project/Site: CCR Plant Scherer

TestAmerica Job ID: 400-131190-2
SDG: Ash Pond

Client Sample ID: SGWC-16

Lab Sample ID: 400-131190-27

Date Collected: 12/07/16 15:20

Matrix: Water

Date Received: 12/09/16 09:11

Method: 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.116	U	0.176	0.176	1.00	0.303	pCi/L	12/16/16 13:41	01/19/17 21:59	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	84.3		40 - 110					12/16/16 13:41	01/19/17 21:59	1

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.310	U	0.251	0.252	1.00	0.398	pCi/L	12/16/16 14:14	01/19/17 14:35	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	84.3		40 - 110					12/16/16 14:14	01/19/17 14:35	1
Y Carrier	99.1		40 - 110					12/16/16 14:14	01/19/17 14:35	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	0.426		0.306	0.308	5.00	0.398	pCi/L		01/24/17 09:40	1

Client Sample Results

Client: Southern Company
Project/Site: CCR Plant Scherer

TestAmerica Job ID: 400-131190-2
SDG: Ash Pond

Client Sample ID: SGWC-9

Lab Sample ID: 400-131190-28

Date Collected: 12/07/16 15:16

Matrix: Water

Date Received: 12/09/16 09:11

Method: 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.206	U	0.250	0.251	1.00	0.410	pCi/L	12/16/16 13:41	01/19/17 22:09	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	70.4		40 - 110					12/16/16 13:41	01/19/17 22:09	1

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.161	U	0.373	0.373	1.00	0.642	pCi/L	12/16/16 14:14	01/19/17 17:59	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	70.4		40 - 110					12/16/16 14:14	01/19/17 17:59	1
Y Carrier	103		40 - 110					12/16/16 14:14	01/19/17 17:59	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	0.367	U	0.449	0.449	5.00	0.642	pCi/L		01/24/17 09:40	1

Client Sample Results

Client: Southern Company
Project/Site: CCR Plant Scherer

TestAmerica Job ID: 400-131190-2
SDG: Ash Pond

Client Sample ID: SGWC-18

Lab Sample ID: 400-131190-29

Date Collected: 12/07/16 11:35

Matrix: Water

Date Received: 12/09/16 09:11

Method: 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.0906	U	0.243	0.243	1.00	0.448	pCi/L	12/16/16 13:41	01/19/17 22:09	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	72.4		40 - 110					12/16/16 13:41	01/19/17 22:09	1

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.345	U	0.367	0.368	1.00	0.599	pCi/L	12/16/16 14:14	01/19/17 17:59	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	72.4		40 - 110					12/16/16 14:14	01/19/17 17:59	1
Y Carrier	103		40 - 110					12/16/16 14:14	01/19/17 17:59	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	0.440	0.441	5.00	0.599	pCi/L		01/24/17 09:40	1

Definitions/Glossary

Client: Southern Company
Project/Site: CCR Plant Scherer

TestAmerica Job ID: 400-131190-2
SDG: Ash Pond

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
CNF	Contains no Free Liquid
DER	Duplicate error ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision level concentration
MDA	Minimum detectable activity
EDL	Estimated Detection Limit
MDC	Minimum detectable concentration
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
NC	Not Calculated
ND	Not detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RER	Relative error ratio
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)

Lab Chronicle

Client: Southern Company
Project/Site: CCR Plant Scherer

TestAmerica Job ID: 400-131190-2
SDG: Ash Pond

Client Sample ID: SGWA-24

Date Collected: 12/05/16 15:13

Date Received: 12/07/16 09:08

Lab Sample ID: 400-131190-1

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			284089	12/15/16 10:16	SCB	TAL SL
Total/NA	Analysis	9315		1	288517	01/20/17 08:52	ALD	TAL SL
Total/NA	Prep	PrecSep_0			284093	12/15/16 10:16	SCB	TAL SL
Total/NA	Analysis	9320		1	288248	01/19/17 18:28	RTM	TAL SL
Total/NA	Analysis	Ra226_Ra228		1	289034	01/24/17 09:40	RTM	TAL SL

Client Sample ID: FD-1 (AP)

Date Collected: 12/05/16 00:00

Date Received: 12/07/16 09:08

Lab Sample ID: 400-131190-2

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			284089	12/15/16 10:16	SCB	TAL SL
Total/NA	Analysis	9315		1	288517	01/20/17 08:53	ALD	TAL SL
Total/NA	Prep	PrecSep_0			284093	12/15/16 10:16	SCB	TAL SL
Total/NA	Analysis	9320		1	288248	01/19/17 18:28	RTM	TAL SL
Total/NA	Analysis	Ra226_Ra228		1	289034	01/24/17 09:40	RTM	TAL SL

Client Sample ID: SGWA-5

Date Collected: 12/06/16 10:30

Date Received: 12/08/16 10:26

Lab Sample ID: 400-131190-3

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			283902	12/14/16 10:37	AS	TAL SL
Total/NA	Analysis	9315		1	288589	01/21/17 11:06	RTM	TAL SL
Total/NA	Prep	PrecSep_0			283915	12/14/16 12:54	AS	TAL SL
Total/NA	Analysis	9320		1	288518	01/20/17 13:34	RTM	TAL SL
Total/NA	Analysis	Ra226_Ra228		1	289034	01/24/17 09:40	RTM	TAL SL

Client Sample ID: FD-2 (AP)

Date Collected: 12/06/16 00:00

Date Received: 12/08/16 10:26

Lab Sample ID: 400-131190-4

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			283902	12/14/16 10:37	AS	TAL SL
Total/NA	Analysis	9315		1	288589	01/21/17 11:06	RTM	TAL SL
Total/NA	Prep	PrecSep_0			283915	12/14/16 12:54	AS	TAL SL
Total/NA	Analysis	9320		1	288518	01/20/17 13:34	RTM	TAL SL
Total/NA	Analysis	Ra226_Ra228		1	289034	01/24/17 09:40	RTM	TAL SL

Lab Chronicle

Client: Southern Company
Project/Site: CCR Plant Scherer

TestAmerica Job ID: 400-131190-2
SDG: Ash Pond

Client Sample ID: SGWA-1

Lab Sample ID: 400-131190-5

Date Collected: 12/06/16 10:53

Matrix: Water

Date Received: 12/08/16 10:26

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			283902	12/14/16 10:37	AS	TAL SL
Total/NA	Analysis	9315		1	288589	01/21/17 12:40	RTM	TAL SL
Total/NA	Prep	PrecSep_0			283915	12/14/16 12:54	AS	TAL SL
Total/NA	Analysis	9320		1	288518	01/20/17 13:34	RTM	TAL SL
Total/NA	Analysis	Ra226_Ra228		1	289034	01/24/17 09:40	RTM	TAL SL

Client Sample ID: SGWC-7

Lab Sample ID: 400-131190-6

Date Collected: 12/06/16 12:01

Matrix: Water

Date Received: 12/08/16 10:26

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			283902	12/14/16 10:37	AS	TAL SL
Total/NA	Analysis	9315		1	288590	01/21/17 11:08	RTM	TAL SL
Total/NA	Prep	PrecSep_0			283915	12/14/16 12:54	AS	TAL SL
Total/NA	Analysis	9320		1	288518	01/20/17 13:34	RTM	TAL SL
Total/NA	Analysis	Ra226_Ra228		1	289034	01/24/17 09:40	RTM	TAL SL

Client Sample ID: SGWA-2

Lab Sample ID: 400-131190-7

Date Collected: 12/06/16 12:09

Matrix: Water

Date Received: 12/08/16 10:26

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			283902	12/14/16 10:37	AS	TAL SL
Total/NA	Analysis	9315		1	288590	01/21/17 11:08	RTM	TAL SL
Total/NA	Prep	PrecSep_0			283915	12/14/16 12:54	AS	TAL SL
Total/NA	Analysis	9320		1	288518	01/20/17 13:35	RTM	TAL SL
Total/NA	Analysis	Ra226_Ra228		1	289034	01/24/17 09:40	RTM	TAL SL

Client Sample ID: SGWA-25

Lab Sample ID: 400-131190-8

Date Collected: 12/06/16 13:00

Matrix: Water

Date Received: 12/08/16 10:26

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			283902	12/14/16 10:37	AS	TAL SL
Total/NA	Analysis	9315		1	288590	01/21/17 11:08	RTM	TAL SL
Total/NA	Prep	PrecSep_0			283915	12/14/16 12:54	AS	TAL SL
Total/NA	Analysis	9320		1	288518	01/20/17 13:35	RTM	TAL SL
Total/NA	Analysis	Ra226_Ra228		1	289034	01/24/17 09:40	RTM	TAL SL

Lab Chronicle

Client: Southern Company
Project/Site: CCR Plant Scherer

TestAmerica Job ID: 400-131190-2
SDG: Ash Pond

Client Sample ID: SGWA-3

Lab Sample ID: 400-131190-9

Date Collected: 12/06/16 13:10

Matrix: Water

Date Received: 12/08/16 10:26

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			283902	12/14/16 10:37	AS	TAL SL
Total/NA	Analysis	9315		1	288590	01/21/17 11:08	RTM	TAL SL
Total/NA	Prep	PrecSep_0			283915	12/14/16 12:54	AS	TAL SL
Total/NA	Analysis	9320		1	288518	01/20/17 13:35	RTM	TAL SL
Total/NA	Analysis	Ra226_Ra228		1	289034	01/24/17 09:40	RTM	TAL SL

Client Sample ID: SGWC-8

Lab Sample ID: 400-131190-10

Date Collected: 12/06/16 13:07

Matrix: Water

Date Received: 12/08/16 10:26

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			283902	12/14/16 10:37	AS	TAL SL
Total/NA	Analysis	9315		1	288590	01/21/17 11:08	RTM	TAL SL
Total/NA	Prep	PrecSep_0			283915	12/14/16 12:54	AS	TAL SL
Total/NA	Analysis	9320		1	288518	01/20/17 13:35	RTM	TAL SL
Total/NA	Analysis	Ra226_Ra228		1	289034	01/24/17 09:40	RTM	TAL SL

Client Sample ID: SGWC-11

Lab Sample ID: 400-131190-11

Date Collected: 12/06/16 14:23

Matrix: Water

Date Received: 12/08/16 10:26

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			283902	12/14/16 10:37	AS	TAL SL
Total/NA	Analysis	9315		1	288590	01/21/17 11:08	RTM	TAL SL
Total/NA	Prep	PrecSep_0			283915	12/14/16 12:54	AS	TAL SL
Total/NA	Analysis	9320		1	288518	01/20/17 13:35	RTM	TAL SL
Total/NA	Analysis	Ra226_Ra228		1	289034	01/24/17 09:40	RTM	TAL SL

Client Sample ID: SGWC-12

Lab Sample ID: 400-131190-12

Date Collected: 12/06/16 15:11

Matrix: Water

Date Received: 12/08/16 10:26

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			283902	12/14/16 10:37	AS	TAL SL
Total/NA	Analysis	9315		1	288590	01/21/17 11:08	RTM	TAL SL
Total/NA	Prep	PrecSep_0			283915	12/14/16 12:54	AS	TAL SL
Total/NA	Analysis	9320		1	288518	01/20/17 13:35	RTM	TAL SL
Total/NA	Analysis	Ra226_Ra228		1	289034	01/24/17 09:40	RTM	TAL SL

Lab Chronicle

Client: Southern Company
Project/Site: CCR Plant Scherer

TestAmerica Job ID: 400-131190-2
SDG: Ash Pond

Client Sample ID: FD-3 (AP)

Lab Sample ID: 400-131190-13

Date Collected: 12/06/16 00:00

Matrix: Water

Date Received: 12/08/16 10:26

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			283902	12/14/16 10:37	AS	TAL SL
Total/NA	Analysis	9315		1	288590	01/21/17 11:09	RTM	TAL SL
Total/NA	Prep	PrecSep_0			283915	12/14/16 12:54	AS	TAL SL
Total/NA	Analysis	9320		1	288518	01/20/17 13:35	RTM	TAL SL
Total/NA	Analysis	Ra226_Ra228		1	289034	01/24/17 09:40	RTM	TAL SL

Client Sample ID: SGWC-10

Lab Sample ID: 400-131190-14

Date Collected: 12/06/16 15:01

Matrix: Water

Date Received: 12/08/16 10:26

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			283902	12/14/16 10:37	AS	TAL SL
Total/NA	Analysis	9315		1	288590	01/21/17 12:25	RTM	TAL SL
Total/NA	Prep	PrecSep_0			283915	12/14/16 12:54	AS	TAL SL
Total/NA	Analysis	9320		1	288518	01/20/17 13:35	RTM	TAL SL
Total/NA	Analysis	Ra226_Ra228		1	289034	01/24/17 09:40	RTM	TAL SL

Client Sample ID: SGWA-4

Lab Sample ID: 400-131190-15

Date Collected: 12/06/16 14:25

Matrix: Water

Date Received: 12/08/16 10:26

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			283902	12/14/16 10:37	AS	TAL SL
Total/NA	Analysis	9315		1	288591	01/21/17 11:01	RTM	TAL SL
Total/NA	Prep	PrecSep_0			283915	12/14/16 12:54	AS	TAL SL
Total/NA	Analysis	9320		1	288518	01/20/17 13:35	RTM	TAL SL
Total/NA	Analysis	Ra226_Ra228		1	289034	01/24/17 09:40	RTM	TAL SL

Client Sample ID: SGWC-6

Lab Sample ID: 400-131190-16

Date Collected: 12/06/16 16:18

Matrix: Water

Date Received: 12/08/16 10:26

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			283902	12/14/16 10:37	AS	TAL SL
Total/NA	Analysis	9315		1	288591	01/21/17 11:01	RTM	TAL SL
Total/NA	Prep	PrecSep_0			283915	12/14/16 12:54	AS	TAL SL
Total/NA	Analysis	9320		1	288518	01/20/17 13:35	RTM	TAL SL
Total/NA	Analysis	Ra226_Ra228		1	289034	01/24/17 09:40	RTM	TAL SL

Lab Chronicle

Client: Southern Company
Project/Site: CCR Plant Scherer

TestAmerica Job ID: 400-131190-2
SDG: Ash Pond

Client Sample ID: SGWC-13

Lab Sample ID: 400-131190-17

Date Collected: 12/06/16 16:00

Matrix: Water

Date Received: 12/08/16 10:26

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			283902	12/14/16 10:37	AS	TAL SL
Total/NA	Analysis	9315		1	288591	01/21/17 11:02	RTM	TAL SL
Total/NA	Prep	PrecSep_0			283915	12/14/16 12:54	AS	TAL SL
Total/NA	Analysis	9320		1	288518	01/20/17 13:35	RTM	TAL SL
Total/NA	Analysis	Ra226_Ra228		1	289034	01/24/17 09:40	RTM	TAL SL

Client Sample ID: SGWC-23

Lab Sample ID: 400-131190-18

Date Collected: 12/07/16 10:08

Matrix: Water

Date Received: 12/09/16 09:11

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			283902	12/14/16 10:37	AS	TAL SL
Total/NA	Analysis	9315		1	288591	01/21/17 11:01	RTM	TAL SL
Total/NA	Prep	PrecSep_0			283915	12/14/16 12:54	AS	TAL SL
Total/NA	Analysis	9320		1	288518	01/20/17 13:36	RTM	TAL SL
Total/NA	Analysis	Ra226_Ra228		1	289034	01/24/17 09:40	RTM	TAL SL

Client Sample ID: FB-1 (AP)

Lab Sample ID: 400-131190-19

Date Collected: 12/07/16 10:05

Matrix: Water

Date Received: 12/09/16 09:11

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			283902	12/14/16 10:37	AS	TAL SL
Total/NA	Analysis	9315		1	288591	01/21/17 11:02	RTM	TAL SL
Total/NA	Prep	PrecSep_0			283915	12/14/16 12:54	AS	TAL SL
Total/NA	Analysis	9320		1	288518	01/20/17 13:36	RTM	TAL SL
Total/NA	Analysis	Ra226_Ra228		1	289034	01/24/17 09:40	RTM	TAL SL

Client Sample ID: SGWC-17

Lab Sample ID: 400-131190-20

Date Collected: 12/07/16 10:10

Matrix: Water

Date Received: 12/09/16 09:11

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			283902	12/14/16 10:37	AS	TAL SL
Total/NA	Analysis	9315		1	288591	01/21/17 11:11	RTM	TAL SL
Total/NA	Prep	PrecSep_0			283915	12/14/16 12:54	AS	TAL SL
Total/NA	Analysis	9320		1	288518	01/20/17 13:36	RTM	TAL SL
Total/NA	Analysis	Ra226_Ra228		1	289034	01/24/17 09:40	RTM	TAL SL

Lab Chronicle

Client: Southern Company
Project/Site: CCR Plant Scherer

TestAmerica Job ID: 400-131190-2
SDG: Ash Pond

Client Sample ID: FB-2 (AP)

Lab Sample ID: 400-131190-21

Date Collected: 12/07/16 09:50

Matrix: Water

Date Received: 12/09/16 09:11

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			283902	12/14/16 10:37	AS	TAL SL
Total/NA	Analysis	9315		1	288591	01/21/17 11:02	RTM	TAL SL
Total/NA	Prep	PrecSep_0			283915	12/14/16 12:54	AS	TAL SL
Total/NA	Analysis	9320		1	288510	01/20/17 13:25	RTM	TAL SL
Total/NA	Analysis	Ra226_Ra228		1	289034	01/24/17 09:40	RTM	TAL SL

Client Sample ID: SGWC-14

Lab Sample ID: 400-131190-22

Date Collected: 12/07/16 10:13

Matrix: Water

Date Received: 12/09/16 09:11

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			283902	12/14/16 10:37	AS	TAL SL
Total/NA	Analysis	9315		1	288591	01/21/17 11:02	RTM	TAL SL
Total/NA	Prep	PrecSep_0			283915	12/14/16 12:54	AS	TAL SL
Total/NA	Analysis	9320		1	288510	01/20/17 13:25	RTM	TAL SL
Total/NA	Analysis	Ra226_Ra228		1	289034	01/24/17 09:40	RTM	TAL SL

Client Sample ID: SGWC-22

Lab Sample ID: 400-131190-23

Date Collected: 12/07/16 10:56

Matrix: Water

Date Received: 12/09/16 09:11

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			284365	12/16/16 13:41	AS	TAL SL
Total/NA	Analysis	9315		1	288248	01/19/17 21:58	RTM	TAL SL
Total/NA	Prep	PrecSep_0			284367	12/16/16 14:14	AS	TAL SL
Total/NA	Analysis	9320		1	288248	01/19/17 14:35	RTM	TAL SL
Total/NA	Analysis	Ra226_Ra228		1	289034	01/24/17 09:40	RTM	TAL SL

Client Sample ID: FB-3 (AP)

Lab Sample ID: 400-131190-24

Date Collected: 12/07/16 11:00

Matrix: Water

Date Received: 12/09/16 09:11

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			284365	12/16/16 13:41	AS	TAL SL
Total/NA	Analysis	9315		1	288248	01/19/17 21:58	RTM	TAL SL
Total/NA	Prep	PrecSep_0			284367	12/16/16 14:14	AS	TAL SL
Total/NA	Analysis	9320		1	288248	01/19/17 14:35	RTM	TAL SL
Total/NA	Analysis	Ra226_Ra228		1	289034	01/24/17 09:40	RTM	TAL SL

TestAmerica Pensacola

Lab Chronicle

Client: Southern Company
Project/Site: CCR Plant Scherer

TestAmerica Job ID: 400-131190-2
SDG: Ash Pond

Client Sample ID: SGWC-21

Lab Sample ID: 400-131190-25

Date Collected: 12/07/16 11:56

Matrix: Water

Date Received: 12/09/16 09:11

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			284365	12/16/16 13:41	AS	TAL SL
Total/NA	Analysis	9315		1	288248	01/19/17 21:59	RTM	TAL SL
Total/NA	Prep	PrecSep_0			284367	12/16/16 14:14	AS	TAL SL
Total/NA	Analysis	9320		1	288248	01/19/17 14:35	RTM	TAL SL
Total/NA	Analysis	Ra226_Ra228		1	289034	01/24/17 09:40	RTM	TAL SL

Client Sample ID: SGWC-15

Lab Sample ID: 400-131190-26

Date Collected: 12/07/16 11:57

Matrix: Water

Date Received: 12/09/16 09:11

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			284365	12/16/16 13:41	AS	TAL SL
Total/NA	Analysis	9315		1	288248	01/19/17 21:59	RTM	TAL SL
Total/NA	Prep	PrecSep_0			284367	12/16/16 14:14	AS	TAL SL
Total/NA	Analysis	9320		1	288248	01/19/17 14:35	RTM	TAL SL
Total/NA	Analysis	Ra226_Ra228		1	289034	01/24/17 09:40	RTM	TAL SL

Client Sample ID: SGWC-16

Lab Sample ID: 400-131190-27

Date Collected: 12/07/16 15:20

Matrix: Water

Date Received: 12/09/16 09:11

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			284365	12/16/16 13:41	AS	TAL SL
Total/NA	Analysis	9315		1	288248	01/19/17 21:59	RTM	TAL SL
Total/NA	Prep	PrecSep_0			284367	12/16/16 14:14	AS	TAL SL
Total/NA	Analysis	9320		1	288248	01/19/17 14:35	RTM	TAL SL
Total/NA	Analysis	Ra226_Ra228		1	289034	01/24/17 09:40	RTM	TAL SL

Client Sample ID: SGWC-9

Lab Sample ID: 400-131190-28

Date Collected: 12/07/16 15:16

Matrix: Water

Date Received: 12/09/16 09:11

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			284365	12/16/16 13:41	AS	TAL SL
Total/NA	Analysis	9315		1	288247	01/19/17 22:09	RTM	TAL SL
Total/NA	Prep	PrecSep_0			284367	12/16/16 14:14	AS	TAL SL
Total/NA	Analysis	9320		1	288248	01/19/17 17:59	RTM	TAL SL
Total/NA	Analysis	Ra226_Ra228		1	289034	01/24/17 09:40	RTM	TAL SL

TestAmerica Pensacola

Lab Chronicle

Client: Southern Company
Project/Site: CCR Plant Scherer

TestAmerica Job ID: 400-131190-2
SDG: Ash Pond

Client Sample ID: SGWC-18

Lab Sample ID: 400-131190-29

Date Collected: 12/07/16 11:35

Matrix: Water

Date Received: 12/09/16 09:11

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			284365	12/16/16 13:41	AS	TAL SL
Total/NA	Analysis	9315		1	288247	01/19/17 22:09	RTM	TAL SL
Total/NA	Prep	PrecSep_0			284367	12/16/16 14:14	AS	TAL SL
Total/NA	Analysis	9320		1	288248	01/19/17 17:59	RTM	TAL SL
Total/NA	Analysis	Ra226_Ra228		1	289034	01/24/17 09:40	RTM	TAL SL

Laboratory References:

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

QC Association Summary

Client: Southern Company
Project/Site: CCR Plant Scherer

TestAmerica Job ID: 400-131190-2
SDG: Ash Pond

Rad

Prep Batch: 283902

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-131190-3	SGWA-5	Total/NA	Water	PrecSep-21	
400-131190-4	FD-2 (AP)	Total/NA	Water	PrecSep-21	
400-131190-5	SGWA-1	Total/NA	Water	PrecSep-21	
400-131190-6	SGWC-7	Total/NA	Water	PrecSep-21	
400-131190-7	SGWA-2	Total/NA	Water	PrecSep-21	
400-131190-8	SGWA-25	Total/NA	Water	PrecSep-21	
400-131190-9	SGWA-3	Total/NA	Water	PrecSep-21	
400-131190-10	SGWC-8	Total/NA	Water	PrecSep-21	
400-131190-11	SGWC-11	Total/NA	Water	PrecSep-21	
400-131190-12	SGWC-12	Total/NA	Water	PrecSep-21	
400-131190-13	FD-3 (AP)	Total/NA	Water	PrecSep-21	
400-131190-14	SGWC-10	Total/NA	Water	PrecSep-21	
400-131190-15	SGWA-4	Total/NA	Water	PrecSep-21	
400-131190-16	SGWC-6	Total/NA	Water	PrecSep-21	
400-131190-17	SGWC-13	Total/NA	Water	PrecSep-21	
400-131190-18	SGWC-23	Total/NA	Water	PrecSep-21	
400-131190-19	FB-1 (AP)	Total/NA	Water	PrecSep-21	
400-131190-20	SGWC-17	Total/NA	Water	PrecSep-21	
400-131190-21	FB-2 (AP)	Total/NA	Water	PrecSep-21	
400-131190-22	SGWC-14	Total/NA	Water	PrecSep-21	
MB 160-283902/1-A	Method Blank	Total/NA	Water	PrecSep-21	
LCS 160-283902/2-A	Lab Control Sample	Total/NA	Water	PrecSep-21	
400-131190-3 DU	SGWA-5	Total/NA	Water	PrecSep-21	
400-131190-5 DU	SGWA-1	Total/NA	Water	PrecSep-21	

Prep Batch: 283915

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-131190-3	SGWA-5	Total/NA	Water	PrecSep_0	
400-131190-4	FD-2 (AP)	Total/NA	Water	PrecSep_0	
400-131190-5	SGWA-1	Total/NA	Water	PrecSep_0	
400-131190-6	SGWC-7	Total/NA	Water	PrecSep_0	
400-131190-7	SGWA-2	Total/NA	Water	PrecSep_0	
400-131190-8	SGWA-25	Total/NA	Water	PrecSep_0	
400-131190-9	SGWA-3	Total/NA	Water	PrecSep_0	
400-131190-10	SGWC-8	Total/NA	Water	PrecSep_0	
400-131190-11	SGWC-11	Total/NA	Water	PrecSep_0	
400-131190-12	SGWC-12	Total/NA	Water	PrecSep_0	
400-131190-13	FD-3 (AP)	Total/NA	Water	PrecSep_0	
400-131190-14	SGWC-10	Total/NA	Water	PrecSep_0	
400-131190-15	SGWA-4	Total/NA	Water	PrecSep_0	
400-131190-16	SGWC-6	Total/NA	Water	PrecSep_0	
400-131190-17	SGWC-13	Total/NA	Water	PrecSep_0	
400-131190-18	SGWC-23	Total/NA	Water	PrecSep_0	
400-131190-19	FB-1 (AP)	Total/NA	Water	PrecSep_0	
400-131190-20	SGWC-17	Total/NA	Water	PrecSep_0	
400-131190-21	FB-2 (AP)	Total/NA	Water	PrecSep_0	
400-131190-22	SGWC-14	Total/NA	Water	PrecSep_0	
MB 160-283915/1-A	Method Blank	Total/NA	Water	PrecSep_0	
LCS 160-283915/2-A	Lab Control Sample	Total/NA	Water	PrecSep_0	
400-131190-3 DU	SGWA-5	Total/NA	Water	PrecSep_0	
400-131190-5 DU	SGWA-1	Total/NA	Water	PrecSep_0	

TestAmerica Pensacola

QC Association Summary

Client: Southern Company
 Project/Site: CCR Plant Scherer

TestAmerica Job ID: 400-131190-2
 SDG: Ash Pond

Prep Batch: 284089

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-131190-1	SGWA-24	Total/NA	Water	PrecSep-21	
400-131190-2	FD-1 (AP)	Total/NA	Water	PrecSep-21	
MB 160-284089/1-A	Method Blank	Total/NA	Water	PrecSep-21	
LCS 160-284089/2-A	Lab Control Sample	Total/NA	Water	PrecSep-21	
400-131190-1 DU	SGWA-24	Total/NA	Water	PrecSep-21	

Prep Batch: 284093

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-131190-1	SGWA-24	Total/NA	Water	PrecSep_0	
400-131190-2	FD-1 (AP)	Total/NA	Water	PrecSep_0	
MB 160-284093/1-A	Method Blank	Total/NA	Water	PrecSep_0	
LCS 160-284093/2-A	Lab Control Sample	Total/NA	Water	PrecSep_0	
400-131172-A-3-B DU	Duplicate	Total/NA	Water	PrecSep_0	
400-131172-A-6-B DU	Duplicate	Total/NA	Water	PrecSep_0	
400-131190-1 DU	SGWA-24	Total/NA	Water	PrecSep_0	

Prep Batch: 284365

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-131190-23	SGWC-22	Total/NA	Water	PrecSep-21	
400-131190-24	FB-3 (AP)	Total/NA	Water	PrecSep-21	
400-131190-25	SGWC-21	Total/NA	Water	PrecSep-21	
400-131190-26	SGWC-15	Total/NA	Water	PrecSep-21	
400-131190-27	SGWC-16	Total/NA	Water	PrecSep-21	
400-131190-28	SGWC-9	Total/NA	Water	PrecSep-21	
400-131190-29	SGWC-18	Total/NA	Water	PrecSep-21	
MB 160-284365/1-A	Method Blank	Total/NA	Water	PrecSep-21	
LCS 160-284365/2-A	Lab Control Sample	Total/NA	Water	PrecSep-21	
240-72944-A-3-A MS	Matrix Spike	Total/NA	Water	PrecSep-21	
240-72944-A-3-B MSD	Matrix Spike Duplicate	Total/NA	Water	PrecSep-21	

Prep Batch: 284367

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-131190-23	SGWC-22	Total/NA	Water	PrecSep_0	
400-131190-24	FB-3 (AP)	Total/NA	Water	PrecSep_0	
400-131190-25	SGWC-21	Total/NA	Water	PrecSep_0	
400-131190-26	SGWC-15	Total/NA	Water	PrecSep_0	
400-131190-27	SGWC-16	Total/NA	Water	PrecSep_0	
400-131190-28	SGWC-9	Total/NA	Water	PrecSep_0	
400-131190-29	SGWC-18	Total/NA	Water	PrecSep_0	
MB 160-284367/1-A	Method Blank	Total/NA	Water	PrecSep_0	
LCS 160-284367/2-A	Lab Control Sample	Total/NA	Water	PrecSep_0	
240-72944-A-3-C MS	Matrix Spike	Total/NA	Water	PrecSep_0	
240-72944-A-3-D MSD	Matrix Spike Duplicate	Total/NA	Water	PrecSep_0	

QC Sample Results

Client: Southern Company
Project/Site: CCR Plant Scherer

TestAmerica Job ID: 400-131190-2
SDG: Ash Pond

Method: 9315 - Radium-226 (GFPC)

Lab Sample ID: MB 160-283902/1-A
Matrix: Water
Analysis Batch: 288589

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 283902

Analyte	MB MB		Count	Total	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
	Result	Qualifier	Uncert. (2σ+/-)	Uncert. (2σ+/-)						
Radium-226	0.06345	U	0.143	0.143	1.00	0.267	pCi/L	12/14/16 10:37	01/21/17 11:05	1
Carrier	MB MB		Limits		Prepared	Analyzed	Dil Fac			
Ba Carrier	%Yield	Qualifier	Limits					12/14/16 10:37	01/21/17 11:05	1
	78.1		40 - 110							

Lab Sample ID: LCS 160-283902/2-A
Matrix: Water
Analysis Batch: 288746

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 283902

Analyte	Spike Added	LCS Result	LCS Qual	Total	RL	MDC	Unit	%Rec	%Rec. Limits
				Uncert. (2σ+/-)					
Radium-226	11.1	14.14		1.56	1.00	0.232	pCi/L	127	68 - 137
Carrier	LCS LCS		Limits		Prepared	Analyzed	Dil Fac		
Ba Carrier	%Yield	Qualifier	Limits					12/14/16 10:37	01/21/17 11:05
	80.1		40 - 110						

Lab Sample ID: 400-131190-3 DU
Matrix: Water
Analysis Batch: 288589

Client Sample ID: SGWA-5
Prep Type: Total/NA
Prep Batch: 283902

Analyte	Sample Sample		DU	DU	Total	RL	MDC	Unit	RER	RER
	Result	Qual	Result	Qual	Uncert. (2σ+/-)					Limit
Radium-226	0.138	U	0.1432	U	0.171	1.00	0.278	pCi/L	0.01	1
Carrier	DU DU		Limits		Prepared	Analyzed	Dil Fac			
Ba Carrier	%Yield	Qualifier	Limits					12/14/16 10:37	01/21/17 11:05	1
	83.2		40 - 110							

Lab Sample ID: 400-131190-5 DU
Matrix: Water
Analysis Batch: 288590

Client Sample ID: SGWA-1
Prep Type: Total/NA
Prep Batch: 283902

Analyte	Sample Sample		DU	DU	Total	RL	MDC	Unit	RER	RER
	Result	Qual	Result	Qual	Uncert. (2σ+/-)					Limit
Radium-226	0.0394	U	0.1924	U	0.197	1.00	0.311	pCi/L	0.43	1
Carrier	DU DU		Limits		Prepared	Analyzed	Dil Fac			
Ba Carrier	%Yield	Qualifier	Limits					12/14/16 10:37	01/21/17 11:05	1
	86.6		40 - 110							

Lab Sample ID: MB 160-284089/1-A
Matrix: Water
Analysis Batch: 288510

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 284089

Analyte	MB MB		Count	Total	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
	Result	Qualifier	Uncert. (2σ+/-)	Uncert. (2σ+/-)						
Radium-226	0.08090	U	0.217	0.217	1.00	0.403	pCi/L	12/15/16 10:16	01/20/17 07:03	1

TestAmerica Pensacola

QC Sample Results

Client: Southern Company
Project/Site: CCR Plant Scherer

TestAmerica Job ID: 400-131190-2
SDG: Ash Pond

Method: 9315 - Radium-226 (GFPC) (Continued)

Lab Sample ID: MB 160-284089/1-A
Matrix: Water
Analysis Batch: 288510

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 284089

Carrier	MB %Yield	MB Qualifier	Limits
Ba Carrier	69.2		40 - 110

Prepared	Analyzed	Dil Fac
12/15/16 10:16	01/20/17 07:03	1

Lab Sample ID: LCS 160-284089/2-A
Matrix: Water
Analysis Batch: 288510

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 284089

Analyte	Spike Added	LCS Result	LCS Qual	Total Uncert. (2σ+/-)	RL	MDC	Unit	%Rec	%Rec. Limits
Radium-226	11.1	14.69		1.78	1.00	0.331	pCi/L	132	68 - 137

Carrier	LCS %Yield	LCS Qualifier	Limits
Ba Carrier	88.3		40 - 110

Lab Sample ID: 400-131190-1 DU
Matrix: Water
Analysis Batch: 288517

Client Sample ID: SGWA-24
Prep Type: Total/NA
Prep Batch: 284089

Analyte	Sample Result	Sample Qual	DU Result	DU Qual	Total Uncert. (2σ+/-)	RL	MDC	Unit	RER	RER Limit
Radium-226	0.132	U	0.3173	U	0.254	1.00	0.375	pCi/L	0.44	1

Carrier	DU %Yield	DU Qualifier	Limits
Ba Carrier	85.2		40 - 110

Lab Sample ID: MB 160-284365/1-A
Matrix: Water
Analysis Batch: 288248

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 284365

Analyte	MB Result	MB Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.05217	U	0.188	0.188	1.00	0.363	pCi/L	12/16/16 13:41	01/19/17 21:58	1

Carrier	MB %Yield	MB Qualifier	Limits
Ba Carrier	79.5		40 - 110

Prepared	Analyzed	Dil Fac
12/16/16 13:41	01/19/17 21:58	1

Lab Sample ID: LCS 160-284365/2-A
Matrix: Water
Analysis Batch: 288248

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 284365

Analyte	Spike Added	LCS Result	LCS Qual	Total Uncert. (2σ+/-)	RL	MDC	Unit	%Rec	%Rec. Limits
Radium-226	11.1	14.37		1.78	1.00	0.372	pCi/L	129	68 - 137

Carrier	LCS %Yield	LCS Qualifier	Limits
Ba Carrier	84.6		40 - 110

QC Sample Results

Client: Southern Company
Project/Site: CCR Plant Scherer

TestAmerica Job ID: 400-131190-2
SDG: Ash Pond

Method: 9315 - Radium-226 (GFPC) (Continued)

Lab Sample ID: 240-72944-A-3-A MS
Matrix: Water
Analysis Batch: 288247

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 284365

Analyte	Sample Result	Sample Qual	Spike Added	MS Result	MS Qual	Total Uncert. (2σ+/-)	RL	MDC	Unit	%Rec	%Rec. Limits
Radium-226	1.33		11.1	14.01		1.73	1.00	0.346	pCi/L	114	75 - 138
Carrier	%Yield	MS Qualifier	MS Limits								
Ba Carrier	88.0		40 - 110								

Lab Sample ID: 240-72944-A-3-B MSD
Matrix: Water
Analysis Batch: 288247

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA
Prep Batch: 284365

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	1.33		11.1	16.18		1.93	1.00	0.329	pCi/L	134	75 - 138	0.59	1
Carrier	%Yield	MSD Qualifier	MSD Limits										
Ba Carrier	88.9		40 - 110										

Method: 9320 - Radium-228 (GFPC)

Lab Sample ID: MB 160-283915/1-A
Matrix: Water
Analysis Batch: 288518

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 283915

Analyte	MB Result	MB Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.3172	U	0.253	0.254	1.00	0.401	pCi/L	12/14/16 12:54	01/20/17 13:34	1
Carrier	%Yield	MB Qualifier	Count Limits							
Ba Carrier	87.0		40 - 110							
Y Carrier	96.8		40 - 110							

Lab Sample ID: LCS 160-283915/2-A
Matrix: Water
Analysis Batch: 288518

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 283915

Analyte	Spike Added	LCS Result	LCS Qual	Total Uncert. (2σ+/-)	RL	MDC	Unit	%Rec	%Rec. Limits
Radium-228	14.0	15.97		1.76	1.00	0.524	pCi/L	114	56 - 140
Carrier	%Yield	LCS Qualifier	LCS Limits						
Ba Carrier	89.2		40 - 110						
Y Carrier	76.3		40 - 110						

QC Sample Results

Client: Southern Company
Project/Site: CCR Plant Scherer

TestAmerica Job ID: 400-131190-2
SDG: Ash Pond

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

Lab Sample ID: 400-131190-3 DU
Matrix: Water
Analysis Batch: 288518

Client Sample ID: SGWA-5
Prep Type: Total/NA
Prep Batch: 283915

Analyte	Sample Result	Sample Qual	DU Result	DU Qual	Total Uncert. (2σ+/-)	RL	MDC	Unit	RER	Limit
Radium-228	0.250	U	0.4169		0.243	1.00	0.362	pCi/L	0.31	1
DU DU										
Carrier	%Yield	Qualifier	Limits							
Ba Carrier	92.7		40 - 110							
Y Carrier	98.7		40 - 110							

Lab Sample ID: 400-131190-5 DU
Matrix: Water
Analysis Batch: 288518

Client Sample ID: SGWA-1
Prep Type: Total/NA
Prep Batch: 283915

Analyte	Sample Result	Sample Qual	DU Result	DU Qual	Total Uncert. (2σ+/-)	RL	MDC	Unit	RER	Limit
Radium-228	0.307	U	0.2345	U	0.227	1.00	0.366	pCi/L	0.15	1
DU DU										
Carrier	%Yield	Qualifier	Limits							
Ba Carrier	96.5		40 - 110							
Y Carrier	95.7		40 - 110							

Lab Sample ID: MB 160-284093/1-A
Matrix: Water
Analysis Batch: 288247

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 284093

Analyte	MB Result	MB Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.5603		0.315	0.319	1.00	0.470	pCi/L	12/15/16 10:16	01/19/17 18:35	1
MB MB										
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	69.2		40 - 110					12/15/16 10:16	01/19/17 18:35	1
Y Carrier	93.8		40 - 110					12/15/16 10:16	01/19/17 18:35	1

Lab Sample ID: LCS 160-284093/2-A
Matrix: Water
Analysis Batch: 288247

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 284093

Analyte	Spike Added	LCS Result	LCS Qual	Total Uncert. (2σ+/-)	RL	MDC	Unit	%Rec	%Rec. Limits	
Radium-228	14.0	15.43		1.64	1.00	0.337	pCi/L	110	56 - 140	
LCS LCS										
Carrier	%Yield	Qualifier	Limits							
Ba Carrier	88.3		40 - 110							
Y Carrier	96.1		40 - 110							

QC Sample Results

Client: Southern Company
Project/Site: CCR Plant Scherer

TestAmerica Job ID: 400-131190-2
SDG: Ash Pond

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

Lab Sample ID: 400-131172-A-3-B DU
Matrix: Water
Analysis Batch: 288248

Client Sample ID: Duplicate
Prep Type: Total/NA
Prep Batch: 284093

Analyte	Sample Result	Sample Qual	DU Result	DU Qual	Total Uncert. (2σ+/-)	RL	MDC	Unit	RER	RER Limit
Radium-228	0.108	U	-0.09430	U	0.205	1.00	0.384	pCi/L	0.43	1
DU DU										
Carrier	%Yield	Qualifier	Limits							
Ba Carrier	87.7		40 - 110							
Y Carrier	96.1		40 - 110							

Lab Sample ID: 400-131172-A-6-B DU
Matrix: Water
Analysis Batch: 288248

Client Sample ID: Duplicate
Prep Type: Total/NA
Prep Batch: 284093

Analyte	Sample Result	Sample Qual	DU Result	DU Qual	Total Uncert. (2σ+/-)	RL	MDC	Unit	RER	RER Limit
Radium-228	0.297	U	0.05094	U	0.242	1.00	0.423	pCi/L	0.50	1
DU DU										
Carrier	%Yield	Qualifier	Limits							
Ba Carrier	87.5		40 - 110							
Y Carrier	91.2		40 - 110							

Lab Sample ID: 400-131190-1 DU
Matrix: Water
Analysis Batch: 288248

Client Sample ID: SGWA-24
Prep Type: Total/NA
Prep Batch: 284093

Analyte	Sample Result	Sample Qual	DU Result	DU Qual	Total Uncert. (2σ+/-)	RL	MDC	Unit	RER	RER Limit
Radium-228	0.101	U	0.1825	U	0.220	1.00	0.363	pCi/L	0.18	1
DU DU										
Carrier	%Yield	Qualifier	Limits							
Ba Carrier	85.2		40 - 110							
Y Carrier	92.0		40 - 110							

Lab Sample ID: MB 160-284367/1-A
Matrix: Water
Analysis Batch: 288248

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 284367

Analyte	MB Result	MB Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.5353		0.294	0.298	1.00	0.444	pCi/L	12/16/16 14:14	01/19/17 14:36	1
MB MB										
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	79.5		40 - 110					12/16/16 14:14	01/19/17 14:36	1
Y Carrier	100		40 - 110					12/16/16 14:14	01/19/17 14:36	1

QC Sample Results

Client: Southern Company
Project/Site: CCR Plant Scherer

TestAmerica Job ID: 400-131190-2
SDG: Ash Pond

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

Lab Sample ID: LCS 160-284367/2-A
Matrix: Water
Analysis Batch: 288248

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 284367

Analyte	Spike Added	LCS Result	LCS Qual	Total Uncert. (2σ+/-)	RL	MDC	Unit	%Rec	%Rec. Limits
Radium-228	14.0	15.38		1.64	1.00	0.379	pCi/L	110	56 - 140
LCS LCS									
Carrier	%Yield	Qualifier	Limits						
Ba Carrier	84.6		40 - 110						
Y Carrier	104		40 - 110						

Lab Sample ID: 240-72944-A-3-C MS
Matrix: Water
Analysis Batch: 288248

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 284367

Analyte	Sample Result	Sample Qual	Spike Added	MS Result	MS Qual	Total Uncert. (2σ+/-)	RL	MDC	Unit	%Rec	%Rec. Limits
Radium-228	0.839		14.0	15.52		1.64	1.00	0.380	pCi/L	105	45 - 150
MS MS											
Carrier	%Yield	Qualifier	Limits								
Ba Carrier	88.0		40 - 110								
Y Carrier	103		40 - 110								

Lab Sample ID: 240-72944-A-3-D MSD
Matrix: Water
Analysis Batch: 288248

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA
Prep Batch: 284367

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	0.839		14.0	15.36		1.63	1.00	0.358	pCi/L	104	45 - 150	0.05	1
MSD MSD													
Carrier	%Yield	Qualifier	Limits										
Ba Carrier	88.9		40 - 110										
Y Carrier	98.3		40 - 110										

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

Lab Sample ID: 400-131190-1 DU
Matrix: Water
Analysis Batch: 289034

Client Sample ID: SGWA-24
Prep Type: Total/NA

Analyte	Sample Result	Sample Qual	DU Result	DU Qual	Total Uncert. (2σ+/-)	RL	MDC	Unit	RER	RER Limit
Combined Radium 226 + 228	0.233	U	0.4998		0.336	5.00	0.375	pCi/L	0.43	

QC Sample Results

Client: Southern Company
 Project/Site: CCR Plant Scherer

TestAmerica Job ID: 400-131190-2
 SDG: Ash Pond

Method: Ra226_Ra228 - Combined Radium-226 and Radium-228 (Continued)

Lab Sample ID: 400-131190-3 DU
Matrix: Water
Analysis Batch: 289034

Client Sample ID: SGWA-5
Prep Type: Total/NA

Analyte	Sample Result	Sample Qual	DU Result	DU Qual	Total Uncert. (2σ+/-)	RL	MDC	Unit	RER	RER Limit
Combined Radium 226 + 228	0.387	U	0.5601		0.297	5.00	0.362	pCi/L	0.26	

Lab Sample ID: 400-131190-5 DU
Matrix: Water
Analysis Batch: 289034

Client Sample ID: SGWA-1
Prep Type: Total/NA

Analyte	Sample Result	Sample Qual	DU Result	DU Qual	Total Uncert. (2σ+/-)	RL	MDC	Unit	RER	RER Limit
Combined Radium 226 + 228	0.346	U	0.4269		0.300	5.00	0.366	pCi/L	0.13	

Chain of Custody Record

TestAmerica Pensacola
3355 McLemore Drive
Pensacola, FL 32514
Phone (850) 474-1001 Fax (850) 478-2671

Sampler: **BEN HODGES** Lab P/N: _____
Phone: **912-250-7457** E-Mail: **cheyenne.whitmire@testamericainc.com**
Whitmire, Cheyenne R.
Cheyenne.whitmire@testamericainc.com

Client Information
Southern Company
Address: 241 Ralph McGill Blvd SE B10185
City: Atlanta
State, Zip: GA, 30308
Phone: _____
Email: **JAbraham@southernco.com**
Project #: **40007041**
CCR - Scherer
Site: **ASH POND**

Due Date Requested: _____
TAT Requested (days): _____
PO #: **GPC10624814**
WO #: _____
Sample Date: _____
Sample Time: _____
Sample Type (C=Comp, G=grab): **G**
Matrix (w=water, S=solid, O=waste/oil, B=BIOTASS, A=Air): **Water**
Field Filtered Sample (Yes or No): **N**
Perform MSD (Yes or No): **N**
2540C-TDS, 300_ORGM_28D-Chloride, Fluoride, Sulfate
6020-Sb, As, Ba, B, Be, Ca, Cd, Cr, Co, Pb, Li, Mo, Se, Ti, 7470A-Hg
9316_Ra226, 9320_Ra228, Ra228Ra228_GPPC

Sample Identification	Sample Date	Sample Time	Sample Type	Matrix	Field Filtered Sample (Yes or No)	Perform MSD (Yes or No)	Analysis Requested	Carrier Tracking No(s)
SGWA-24	12-5-16	1513	G	Water	<input checked="" type="checkbox"/> N	<input checked="" type="checkbox"/> N	400-131190 COC 	COC No: 400-57303-24790.4 Page: Page 4 of 8 Job #:
FD-1(CAP)	12-5-16	-	G	Water	<input checked="" type="checkbox"/> N	<input checked="" type="checkbox"/> N		
				Water	<input type="checkbox"/>	<input type="checkbox"/>		

Special Instructions/Note:	Total Number of Containers
	4
	3

Possible Hazard Identification
 Non-Hazard Flammable Skin Irritant Poison B Unknown Radiological
Deliverable Requested: 1, II, III, IV, Other (specify) _____
Empty Kit Relinquished by: _____ Date: _____
Relinquished by: **Ben Hodges** Date/Time: **12-6-16 08:15** Company: **Southern**
Relinquished by: **M. BATH** Date/Time: **12-6-16 11:20** Company: **Camern NW**
Relinquished by: **Ben Hodges** Date/Time: **12-6-16 15:00** Company: **744**
Custody Seals Intact? Yes No
Cooler Temperature(s) and Other Remarks: **4.2°C TRS**
Special Instructions/OC Requirements:
Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
 Return To Client Disposal By Lab Archive For _____ Months
Method of Shipment: _____
Received by: **M. Bath** Date/Time: **12-6-18 8:20** Company: **Camern NW**
Received by: **Ben Hodges** Date/Time: **12/6/16 11:20** Company: **744**
Received by: **Ben Hodges** Date/Time: **12/6/16 15:00** Company: **744**

Chain of Custody Record

Client Information Client Contact: Joju Abraham Company: Southern Company Address: 241 Ralph McGill Blvd SE B10185 City: Atlanta State/Zip: GA, 30308 Phone: GPC10624814 Email: JAbraham@southernco.com Project Name: CCR - Scherer Site: Ash Pond		Lab Piv: Whitire, Cheyenne R E-Mail: cheyenne.whitire@testamericainc.com Carrier Tracking No(s): COC No: 400-57303-24790.8 Page: Page 8 of 8 Job #:							
Due Date Requested: TAT Requested (days): PO #: WO #: Project #: SSOV#:		Analysis Requested Perform MS/MSD (Yes or No) <input checked="" type="checkbox"/> N <input checked="" type="checkbox"/> D Field Filtered Sample (Yes or No) <input checked="" type="checkbox"/> N <input checked="" type="checkbox"/> D 2640C-TDS, 300_ORGM, 28D-Chloride, Fluoride, Sulfate 6020-Sb, As, Ba, B, Be, Ca, Cd, Cr, Co, Pb, Li, Mo, Se, Ti, 7470A-Hg 9316_Ra226, 9320_Ra228, Ra226Ra228_GFPc							
Sample Identification Sample Date Sample Time Sample Type (C=Comp, G=grab) Matrix (W=water, S=solid, O=wastelool, BT=tissue, A=air) Preservation Code	SGWA-5 FD-2(CAP) SGWA-1 SGWC-7 SGWA-2 SGWA-25 SGWA-3 SGWC-8 SGWC-11 SGWC-12 FD-3(CAP)	12.6.16 12.6.16 12.6.16 12.6.16 12.6.16 12.6.16 12.6.16 12.6.16 12.6.16 12.6.16	1030 - 1053 1201 1209 1300 1310 1307 1423 1511 -	G G G G G G G G G G	Water Water Water W W W W W W W W	1 1 1 1 1 1 1 1 1 1 1	1 1 1 1 1 1 1 1 1 1 1	4 3 1 3 3 3 3 3 3 3 3	Total Number of Containers Special Instructions/Note: Preservation Codes: A - HCL B - NaOH C - Zn Acetate D - Nitric Acid E - NaHSO4 F - MeOH G - Anchlor H - Ascorbic Acid I - Ice J - DI Water K - EDTA L - EDA M - Hexane N - None O - AsNaO2 P - Na2O4S Q - Na2SO3 R - Na2SO3 S - H2SO4 T - TSP Dodecahydrate U - Acetone V - MCAA W - ph 4-5 Z - other (specify) Other:
Possible Hazard Identification <input checked="" type="checkbox"/> Non-Hazard <input type="checkbox"/> Flammable <input type="checkbox"/> Skin Irritant <input type="checkbox"/> Poison B <input type="checkbox"/> Unknown <input type="checkbox"/> Radiological		Sample Disposal (A fee may be assessed if samples are retained longer than 1 month) <input type="checkbox"/> Return To Client <input checked="" type="checkbox"/> Disposal By Lab <input type="checkbox"/> Archive For _____ Months							
Deliverable Requested: I, II, III, IV, Other (specify)		Special Instructions/QC Requirements:							
Empty Kit Relinquished by:		Method of Shipment:							
Relinquished by: Ben Han		Date: 12/7/16 0810 Company: 60162							
Relinquished by: T Elrod		Date: 12-7-16 1030 Company: C Now							
Relinquished by: T Elrod		Date: 12-7-16 1032 Company: VA							
Custody Seals Intact: <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No		Cooler Temperature(s) °C and Other Remarks: 1.0°C, 4.9°C, 20.5							



TestAmerica Pensacola
 3355 McLemore Drive
 Pensacola, FL 32514
 Phone (850) 474-1001 Fax (850) 478-2671

Chain of Custody Record



Client Information
 Client Contact: Joju Abraham
 Company: Southern Company
 Address: 241 Ralph McGill Blvd SE B10185
 City: Atlanta
 State, Zip: GA, 30308
 Phone: _____
 Email: JAbraham@southernco.com
 Project Name: CCR - Scheiter
 Site: Ash Pond

Sampler: B. Hodges
 Lab PM: Whitmire, Chylene R
 Phone: 912-258-7467
 E-Mail: chylene.whitmire@testamericainc.com

Carrier Tracking No(s): _____
 COC No: 400-57303-24790
 Page: _____
 Job #: _____

Due Date Requested: _____
 TAT Requested (days): _____
 PO #: GPC10981866
 WC #: _____
 Project #: 40007041
 SSOW#: _____

2840C-TDS, 300_ORGM_28D-Chloride,Fluoride,Sulfate
 6020-Sb,As,Ba,Bi,Cd,Cr,Cu,Pb,Li,Mn,Se,Tl, T470A-Hg
 9316, Ra226, 9320, Ra228, Ra228Ra228_GFPc

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water, S=solid, O=water/soil, P=soil/tissue, A=air)	Special Instructions/Note:
SGWC-10	12-6-16	1501	G	Water	
SG WA-4	12-6-16	1425	G	Water	
SG WC-6	12-6-16	1618	G	Water	
SG WC-13	12-6-16	1600	G	Water	
				Water	
				Water	
				Water	
				Water	
				Water	
				Water	
				Water	
				Water	
				Water	

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
 Other: _____

M - Hexane
 N - None
 O - AsNaO2
 P - Na2OAS
 Q - Na2SO3
 R - Na2SO4
 S - H2SO4
 T - TSP Dodecahydrate
 U - Acetone
 V - MCAA
 W - ph +5
 Z - other (specify)

Analysis Requested

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

Special Instructions/QC-Requirements:
 Radiological
 Poison B
 Unknown
 Skin Irritant
 Non-Hazard
 Flammable
 Other (specify)

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

Empty Kit Relinquished by: _____ Date: _____
 Relinquished by: _____ Date: 12/7/16 0810
 Relinquished by: T Elrod Company: Snow
 Relinquished by: _____ Date: 12-7-16 1030
 Relinquished by: _____ Date: 12-7-16 1032
 Relinquished by: _____ Date: 12-7-16 1030
 Relinquished by: _____ Date: 12-7-16 1026
 Relinquished by: _____ Date: 12-7-16 0810
 Relinquished by: T Elrod Company: Snow

Cooler Temperature(s) °C and Other Remarks:
 Δ Yes Δ No

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 Pensacola, FL 32514
 Phone (850) 474-1001 Fax (850) 478-2671

Chain of Custody Record

TestAmerica
 THE LEADER IN ENVIRONMENTAL TESTING

681-Atlanta

Client Information Sampler: Ben Hodges Phone: 912-258-7457 Client Contact: Jolij Abraham Company: Southern Company		Lab PM: Whitmire, Cheyenne R E-Mail: cheyenne.whitmire@testamericainc.com		Carrier Tracking No(s): COC No: 400-57303-24790.8 Page: Page 8 of 8 Job #:						
Address: 2411 Ralph McGill Blvd SE B10185 City: Atlanta State, Zip: GA, 30308 PO #: GPC10624814 WO #:		Due Date Requested: TAT Requested (days): Project #: 40007041 Project Name: CCR - Scherer Site: Ash Pond		Analysis Requested 2940C-TDS, 300 ORGM, 280 Chloride, Fluoride, Sulfate 6020-Sp, As, Ba, B, Ba, Ca, Cd, Cr, Co, Pb, Li, Mn, Se, Tl, 7470A-Hg 9316, Ra226, 9320, Ra228, Ra228Ra226, GFCP						
Sample Identification Sample ID Sample Date Sample Time Sample Type (C=Comp, G=Grab) Matrix (W=Water, S=Solid, O=Water/Oil, BT=Tissue, A=Air) Preservation Code: Field Filtered Sample (Yes or No)		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 Other:		Special Instructions/Note: Total Number of Containers						
SGWC-23	12/7/16	1008	G	Water	N	1	1	1	3	
FB-1(AP)	12/7/16	1005	G	Water	N	1	1	1	3	
SGWC-17	12/7/16	1010	G	Water	N	1	1	1	3	
FB-2(AP)	12/7/16	0950	G	Water	N	1	1	1	3	
SGWC-14	12/7/16	1013	G	Water	N	1	1	1	3	
SGWC-22	12/7/16	1056	G	Water	N	1	1	1	3	
FB-3(AP)	12/7/16	1100	G	Water	N	1	1	1	3	
SGWC-21	12/7/16	1156	G	Water	N	1	1	1	3	
SGWC-15	12/7/16	1157	G	Water	N	1	1	1	3	
SGWC-16	12/7/16	1520	G	Water	N	1	1	1	3	
SGWC-9	12/7/16	1516	G	Water	N	1	1	1	3	
SGWC-18	12/7/16	1135	G	Water	N	1	1	1	3	
Possible Hazard Identification <input checked="" type="checkbox"/> Non-Hazard <input type="checkbox"/> Flammable <input type="checkbox"/> Skin Irritant <input type="checkbox"/> Poison B <input type="checkbox"/> Unknown <input type="checkbox"/> Radiological Deliverable Requested: I, II, III, IV, Other (specify)										
Empty Kit Relinquished by:										
Relinquished by: J Elrod Date: 12/8/16 0810 Company: Colder		Received by: J Elrod Date: 12-8-16 1038 Company: C Now		Date: 12-8-16 0810 Company: C Now						
Relinquished by: J Elrod Date: 12-8-16 1040 Company: IA		Received by: J Elrod Date: 12-8-16 0911 Company: IA		Date: 12-8-16 1038 Company: IA						
Custody Seal No.: Custody Seal Intact: <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No Cooler Temperature(s) °C and Other Remarks: 0-4.0-0.0°C IPUS										

Login Sample Receipt Checklist

Client: Southern Company

Job Number: 400-131190-2

SDG Number: Ash Pond

Login Number: 131190

List Number: 1

Creator: Siddoway, Benjamin

List Source: TestAmerica Pensacola

Question	Answer	Comment
Radioactivity wasn't checked or is \leq background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	N/A	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	4.2°C, 1.2°C, 4.8°C, 0.1°C, 0.0°C IR-5
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 <math><6\text{mm}</math> (1/4").	N/A	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

Certification Summary

Client: Southern Company
Project/Site: CCR Plant Scherer

TestAmerica Job ID: 400-131190-2
SDG: Ash Pond

Laboratory: TestAmerica Pensacola

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

Authority	Program	EPA Region	Certification ID	Expiration Date
Alabama	State Program	4	40150	06-30-17
Arizona	State Program	9	AZ0710	01-11-18
Arkansas DEQ	State Program	6	88-0689	09-01-17
California	ELAP	9	2510	03-31-18
Florida	NELAP	4	E81010	06-30-17
Georgia	State Program	4	N/A	06-30-17
Illinois	NELAP	5	200041	10-09-17
Iowa	State Program	7	367	08-01-18
Kansas	NELAP	7	E-10253	10-31-17
Kentucky (UST)	State Program	4	53	06-30-17
Kentucky (WW)	State Program	4	98030	12-31-17
Louisiana	NELAP	6	30976	06-30-17
Louisiana (DW)	NELAP Secondary AB	6	LA170005	12-31-17
Maryland	State Program	3	233	09-30-17
Massachusetts	State Program	1	M-FL094	06-30-17
Michigan	State Program	5	9912	05-06-17
New Jersey	NELAP	2	FL006	06-30-17
North Carolina (WW/SW)	State Program	4	314	12-31-17
Oklahoma	State Program	6	9810	08-31-17
Pennsylvania	NELAP	3	68-00467	01-31-18
Rhode Island	State Program	1	LAO00307	12-30-16 *
South Carolina	State Program	4	96026	06-30-17
Tennessee	State Program	4	TN02907	06-30-17
Texas	NELAP	6	T104704286-16-10	09-30-17
USDA	Federal		P330-16-00172	05-24-19
Virginia	NELAP	3	460166	06-14-17
Washington	State Program	10	C915	05-15-17
West Virginia DEP	State Program	3	136	06-30-17

Laboratory: TestAmerica St. Louis

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

Authority	Program	EPA Region	Certification ID	Expiration Date
Alaska	State Program	10	MO00054	06-30-17
California	State Program	9	2886	03-31-18 *
Connecticut	State Program	1	PH-0241	03-31-17 *
Florida	NELAP	4	E87689	06-30-17
Illinois	NELAP	5	200023	11-30-17
Iowa	State Program	7	373	12-01-16 *
Kansas	NELAP	7	E-10236	10-31-17
Kentucky (DW)	State Program	4	90125	12-31-17
L-A-B	DoD ELAP		L2305	04-06-19
Louisiana	NELAP	6	04080	06-30-17
Louisiana (DW)	NELAP	6	LA170011	12-31-17
Maryland	State Program	3	310	09-30-17
Missouri	State Program	7	780	06-30-17
Nevada	State Program	9	MO000542017-1	07-31-17
New Jersey	NELAP	2	MO002	06-30-17
New York	NELAP	2	11616	03-31-17 *
North Dakota	State Program	8	R207	06-30-17

* Certification renewal pending - certification considered valid.

Certification Summary

Client: Southern Company
Project/Site: CCR Plant Scherer

TestAmerica Job ID: 400-131190-2
SDG: Ash Pond

Laboratory: TestAmerica St. Louis (Continued)

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

Authority	Program	EPA Region	Certification ID	Expiration Date
NRC	NRC		24-24817-01	12-31-22
Oklahoma	State Program	6	9997	08-31-17
Pennsylvania	NELAP	3	68-00540	02-28-17 *
South Carolina	State Program	4	85002001	06-30-17
Texas	NELAP	6	T104704193-16-10	07-31-17
US Fish & Wildlife	Federal		LE058448-0	10-31-17
USDA	Federal		P330-14-0016	01-09-17 *
Utah	NELAP	8	MO000542016-8	07-31-17
Virginia	NELAP	3	460230	06-14-17
Washington	State Program	10	C592	08-30-17
West Virginia DEP	State Program	3	381	08-31-17 *

* Certification renewal pending - certification considered valid.

TestAmerica Pensacola

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

TestAmerica Laboratories, Inc.

TestAmerica Pensacola

3355 McLemore Drive

Pensacola, FL 32514

Tel: (850)474-1001

TestAmerica Job ID: 400-131380-1

TestAmerica Sample Delivery Group: Ash Pond

Client Project/Site: CCR Plant Scherer

For:

Southern Company

241 Ralph McGill Blvd SE

B10185

Atlanta, Georgia 30308

Attn: Joju Abraham



Authorized for release by:

12/16/2016 5:45:38 PM

Cheyenne Whitmire, Project Manager II

(850)471-6222

cheyenne.whitmire@testamericainc.com

LINKS

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Visit us at:
www.testamericainc.com

The test results in this report meet all 2003 NELAC and 2009 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.

1

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9

10

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12

13

14



Table of Contents

Cover Page	1
Table of Contents	2
Case Narrative	3
Detection Summary	4
Method Summary	5
Sample Summary	6
Client Sample Results	7
Definitions	12
Chronicle	13
QC Association	15
QC Sample Results	17
Chain of Custody	22
Receipt Checklists	23
Certification Summary	24

Case Narrative

Client: Southern Company
Project/Site: CCR Plant Scherer

TestAmerica Job ID: 400-131380-1
SDG: Ash Pond

Job ID: 400-131380-1

Laboratory: TestAmerica Pensacola

Narrative

Job Narrative
400-131380-1

HPLC/IC

Method(s) 300.0: The following samples were diluted to bring the concentration of target analytes within the calibration range: SGWC-20 (400-131380-1) and SGWC-19 (400-131380-2). Elevated reporting limits (RLs) are provided.

Metals

Method(s) 6020: The following samples were diluted to bring the concentration of target analytes within the calibration range: SGWC-20 (400-131380-1) and SGWC-19 (400-131380-2). Elevated reporting limits (RLs) are provided.

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- 3
- 4
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- 7
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- 14

Detection Summary

Client: Southern Company
Project/Site: CCR Plant Scherer

TestAmerica Job ID: 400-131380-1
SDG: Ash Pond

Client Sample ID: SGWC-20

Lab Sample ID: 400-131380-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chloride	9.7		1.0	0.89	mg/L	1		300.0	Total/NA
Fluoride	0.28		0.20	0.082	mg/L	1		300.0	Total/NA
Sulfate	240		10	7.0	mg/L	10		300.0	Total/NA
Barium	0.038		0.0025	0.00049	mg/L	5		6020	Total Recoverable
Beryllium	0.00093	J	0.0025	0.00034	mg/L	5		6020	Total Recoverable
Calcium	11		0.25	0.13	mg/L	5		6020	Total Recoverable
Cobalt	0.26		0.0025	0.00040	mg/L	5		6020	Total Recoverable
Lithium	0.0043	J	0.0050	0.0032	mg/L	5		6020	Total Recoverable
Thallium	0.00010	J	0.00050	0.000085	mg/L	5		6020	Total Recoverable
Boron - DL	1.9		0.50	0.21	mg/L	50		6020	Total Recoverable
Total Dissolved Solids	370		5.0	3.4	mg/L	1		SM 2540C	Total/NA

Client Sample ID: SGWC-19

Lab Sample ID: 400-131380-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chloride	7.8		1.0	0.89	mg/L	1		300.0	Total/NA
Sulfate	220		10	7.0	mg/L	10		300.0	Total/NA
Barium	0.045		0.0025	0.00049	mg/L	5		6020	Total Recoverable
Calcium	36		0.25	0.13	mg/L	5		6020	Total Recoverable
Chromium	0.013		0.0025	0.0011	mg/L	5		6020	Total Recoverable
Cobalt	0.00078	J	0.0025	0.00040	mg/L	5		6020	Total Recoverable
Boron - DL	1.7		0.50	0.21	mg/L	50		6020	Total Recoverable
Total Dissolved Solids	350		5.0	3.4	mg/L	1		SM 2540C	Total/NA

Client Sample ID: EB-1 (AP)

Lab Sample ID: 400-131380-3

No Detections.

Client Sample ID: EB-2 (AP)

Lab Sample ID: 400-131380-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Barium	0.0017	J	0.0025	0.00049	mg/L	5		6020	Total Recoverable

Client Sample ID: EB-3 (AP)

Lab Sample ID: 400-131380-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Barium	0.0019	J	0.0025	0.00049	mg/L	5		6020	Total Recoverable

This Detection Summary does not include radiochemical test results.

TestAmerica Pensacola

Method Summary

Client: Southern Company
Project/Site: CCR Plant Scherer

TestAmerica Job ID: 400-131380-1
SDG: Ash Pond

Method	Method Description	Protocol	Laboratory
300.0	Anions, Ion Chromatography	MCAWW	TAL PEN
6020	Metals (ICP/MS)	SW846	TAL PEN
7470A	Mercury (CVAA)	SW846	TAL PEN
SM 2540C	Solids, Total Dissolved (TDS)	SM	TAL PEN

Protocol References:

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:

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



Sample Summary

Client: Southern Company
Project/Site: CCR Plant Scherer

TestAmerica Job ID: 400-131380-1
SDG: Ash Pond

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
400-131380-1	SGWC-20	Water	12/08/16 10:05	12/09/16 09:11
400-131380-2	SGWC-19	Water	12/08/16 10:11	12/09/16 09:11
400-131380-3	EB-1 (AP)	Water	12/08/16 10:55	12/09/16 09:11
400-131380-4	EB-2 (AP)	Water	12/08/16 11:10	12/09/16 09:11
400-131380-5	EB-3 (AP)	Water	12/08/16 11:25	12/09/16 09:11

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Client Sample Results

Client: Southern Company
Project/Site: CCR Plant Scherer

TestAmerica Job ID: 400-131380-1
SDG: Ash Pond

Client Sample ID: SGWC-20

Lab Sample ID: 400-131380-1

Date Collected: 12/08/16 10:05

Matrix: Water

Date Received: 12/09/16 09:11

Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	9.7		1.0	0.89	mg/L			12/14/16 17:49	1
Fluoride	0.28		0.20	0.082	mg/L			12/14/16 17:49	1
Sulfate	240		10	7.0	mg/L			12/15/16 19:10	10

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0010		0.0025	0.0010	mg/L		12/14/16 08:30	12/14/16 16:38	5
Arsenic	<0.00046		0.0013	0.00046	mg/L		12/14/16 08:30	12/14/16 16:38	5
Barium	0.038		0.0025	0.00049	mg/L		12/14/16 08:30	12/14/16 16:38	5
Beryllium	0.00093	J	0.0025	0.00034	mg/L		12/14/16 08:30	12/14/16 16:38	5
Cadmium	<0.00034		0.0025	0.00034	mg/L		12/14/16 08:30	12/14/16 16:38	5
Calcium	11		0.25	0.13	mg/L		12/14/16 08:30	12/14/16 16:38	5
Chromium	<0.0011		0.0025	0.0011	mg/L		12/14/16 08:30	12/14/16 16:38	5
Cobalt	0.26		0.0025	0.00040	mg/L		12/14/16 08:30	12/14/16 16:38	5
Lead	<0.00035		0.0013	0.00035	mg/L		12/14/16 08:30	12/14/16 16:38	5
Lithium	0.0043	J	0.0050	0.0032	mg/L		12/14/16 08:30	12/14/16 16:38	5
Molybdenum	<0.00085		0.015	0.00085	mg/L		12/14/16 08:30	12/14/16 16:38	5
Selenium	<0.00024		0.0013	0.00024	mg/L		12/14/16 08:30	12/14/16 16:38	5
Thallium	0.00010	J	0.00050	0.000085	mg/L		12/14/16 08:30	12/14/16 16:38	5

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Boron	1.9		0.50	0.21	mg/L		12/14/16 08:30	12/14/16 15:49	50

Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.000070		0.00020	0.000070	mg/L		12/14/16 12:21	12/15/16 09:50	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	370		5.0	3.4	mg/L			12/14/16 17:00	1

Client Sample Results

Client: Southern Company
Project/Site: CCR Plant Scherer

TestAmerica Job ID: 400-131380-1
SDG: Ash Pond

Client Sample ID: SGWC-19

Lab Sample ID: 400-131380-2

Date Collected: 12/08/16 10:11

Matrix: Water

Date Received: 12/09/16 09:11

Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	7.8		1.0	0.89	mg/L			12/14/16 18:11	1
Fluoride	<0.082		0.20	0.082	mg/L			12/14/16 18:11	1
Sulfate	220		10	7.0	mg/L			12/15/16 19:33	10

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0010		0.0025	0.0010	mg/L		12/14/16 08:30	12/14/16 16:43	5
Arsenic	<0.00046		0.0013	0.00046	mg/L		12/14/16 08:30	12/14/16 16:43	5
Barium	0.045		0.0025	0.00049	mg/L		12/14/16 08:30	12/14/16 16:43	5
Beryllium	<0.00034		0.0025	0.00034	mg/L		12/14/16 08:30	12/14/16 16:43	5
Cadmium	<0.00034		0.0025	0.00034	mg/L		12/14/16 08:30	12/14/16 16:43	5
Calcium	36		0.25	0.13	mg/L		12/14/16 08:30	12/14/16 16:43	5
Chromium	0.013		0.0025	0.0011	mg/L		12/14/16 08:30	12/14/16 16:43	5
Cobalt	0.00078	J	0.0025	0.00040	mg/L		12/14/16 08:30	12/14/16 16:43	5
Lead	<0.00035		0.0013	0.00035	mg/L		12/14/16 08:30	12/14/16 16:43	5
Lithium	<0.0032		0.0050	0.0032	mg/L		12/14/16 08:30	12/14/16 16:43	5
Molybdenum	<0.00085		0.015	0.00085	mg/L		12/14/16 08:30	12/14/16 16:43	5
Selenium	<0.00024		0.0013	0.00024	mg/L		12/14/16 08:30	12/14/16 16:43	5
Thallium	<0.000085		0.00050	0.000085	mg/L		12/14/16 08:30	12/14/16 16:43	5

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Boron	1.7		0.50	0.21	mg/L		12/14/16 08:30	12/14/16 15:53	50

Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.000070		0.00020	0.000070	mg/L		12/14/16 12:21	12/15/16 09:52	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	350		5.0	3.4	mg/L			12/14/16 17:00	1

Client Sample Results

Client: Southern Company
Project/Site: CCR Plant Scherer

TestAmerica Job ID: 400-131380-1
SDG: Ash Pond

Client Sample ID: EB-1 (AP)

Lab Sample ID: 400-131380-3

Date Collected: 12/08/16 10:55

Matrix: Water

Date Received: 12/09/16 09:11

Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<0.89		1.0	0.89	mg/L			12/14/16 18:34	1
Fluoride	<0.082		0.20	0.082	mg/L			12/14/16 18:34	1
Sulfate	<0.70		1.0	0.70	mg/L			12/14/16 18:34	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0010		0.0025	0.0010	mg/L		12/14/16 08:30	12/14/16 15:35	5
Arsenic	<0.00046		0.0013	0.00046	mg/L		12/14/16 08:30	12/14/16 15:35	5
Barium	<0.00049		0.0025	0.00049	mg/L		12/14/16 08:30	12/14/16 15:35	5
Beryllium	<0.00034		0.0025	0.00034	mg/L		12/14/16 08:30	12/14/16 15:35	5
Boron	<0.021		0.050	0.021	mg/L		12/14/16 08:30	12/14/16 15:35	5
Cadmium	<0.00034		0.0025	0.00034	mg/L		12/14/16 08:30	12/14/16 15:35	5
Calcium	<0.13		0.25	0.13	mg/L		12/14/16 08:30	12/14/16 15:35	5
Chromium	<0.0011		0.0025	0.0011	mg/L		12/14/16 08:30	12/14/16 15:35	5
Cobalt	<0.00040		0.0025	0.00040	mg/L		12/14/16 08:30	12/14/16 15:35	5
Lead	<0.00035		0.0013	0.00035	mg/L		12/14/16 08:30	12/14/16 15:35	5
Lithium	<0.0032		0.0050	0.0032	mg/L		12/14/16 08:30	12/14/16 15:35	5
Molybdenum	<0.00085		0.015	0.00085	mg/L		12/14/16 08:30	12/14/16 15:35	5
Selenium	<0.00024		0.0013	0.00024	mg/L		12/14/16 08:30	12/14/16 15:35	5
Thallium	<0.000085		0.00050	0.000085	mg/L		12/14/16 08:30	12/14/16 15:35	5

Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.000070		0.00020	0.000070	mg/L		12/14/16 12:21	12/15/16 09:57	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	<3.4		5.0	3.4	mg/L			12/14/16 17:00	1

Client Sample Results

Client: Southern Company
Project/Site: CCR Plant Scherer

TestAmerica Job ID: 400-131380-1
SDG: Ash Pond

Client Sample ID: EB-2 (AP)

Lab Sample ID: 400-131380-4

Date Collected: 12/08/16 11:10

Matrix: Water

Date Received: 12/09/16 09:11

Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<0.89		1.0	0.89	mg/L			12/14/16 18:57	1
Fluoride	<0.082		0.20	0.082	mg/L			12/14/16 18:57	1
Sulfate	<0.70		1.0	0.70	mg/L			12/14/16 18:57	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0010		0.0025	0.0010	mg/L		12/14/16 08:30	12/14/16 15:40	5
Arsenic	<0.00046		0.0013	0.00046	mg/L		12/14/16 08:30	12/14/16 15:40	5
Barium	0.0017	J	0.0025	0.00049	mg/L		12/14/16 08:30	12/14/16 15:40	5
Beryllium	<0.00034		0.0025	0.00034	mg/L		12/14/16 08:30	12/14/16 15:40	5
Boron	<0.021		0.050	0.021	mg/L		12/14/16 08:30	12/14/16 15:40	5
Cadmium	<0.00034		0.0025	0.00034	mg/L		12/14/16 08:30	12/14/16 15:40	5
Calcium	<0.13		0.25	0.13	mg/L		12/14/16 08:30	12/14/16 15:40	5
Chromium	<0.0011		0.0025	0.0011	mg/L		12/14/16 08:30	12/14/16 15:40	5
Cobalt	<0.00040		0.0025	0.00040	mg/L		12/14/16 08:30	12/14/16 15:40	5
Lead	<0.00035		0.0013	0.00035	mg/L		12/14/16 08:30	12/14/16 15:40	5
Lithium	<0.0032		0.0050	0.0032	mg/L		12/14/16 08:30	12/14/16 15:40	5
Molybdenum	<0.00085		0.015	0.00085	mg/L		12/14/16 08:30	12/14/16 15:40	5
Selenium	<0.00024		0.0013	0.00024	mg/L		12/14/16 08:30	12/14/16 15:40	5
Thallium	<0.000085		0.00050	0.000085	mg/L		12/14/16 08:30	12/14/16 15:40	5

Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.000070		0.00020	0.000070	mg/L		12/14/16 12:21	12/15/16 09:59	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	<3.4		5.0	3.4	mg/L			12/14/16 17:00	1

Client Sample Results

Client: Southern Company
Project/Site: CCR Plant Scherer

TestAmerica Job ID: 400-131380-1
SDG: Ash Pond

Client Sample ID: EB-3 (AP)

Lab Sample ID: 400-131380-5

Date Collected: 12/08/16 11:25

Matrix: Water

Date Received: 12/09/16 09:11

Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<0.89		1.0	0.89	mg/L			12/14/16 19:43	1
Fluoride	<0.082		0.20	0.082	mg/L			12/14/16 19:43	1
Sulfate	<0.70		1.0	0.70	mg/L			12/14/16 19:43	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0010		0.0025	0.0010	mg/L		12/14/16 08:30	12/14/16 15:44	5
Arsenic	<0.00046		0.0013	0.00046	mg/L		12/14/16 08:30	12/14/16 15:44	5
Barium	0.0019	J	0.0025	0.00049	mg/L		12/14/16 08:30	12/14/16 15:44	5
Beryllium	<0.00034		0.0025	0.00034	mg/L		12/14/16 08:30	12/14/16 15:44	5
Boron	<0.021		0.050	0.021	mg/L		12/14/16 08:30	12/14/16 15:44	5
Cadmium	<0.00034		0.0025	0.00034	mg/L		12/14/16 08:30	12/14/16 15:44	5
Calcium	<0.13		0.25	0.13	mg/L		12/14/16 08:30	12/14/16 15:44	5
Chromium	<0.0011		0.0025	0.0011	mg/L		12/14/16 08:30	12/14/16 15:44	5
Cobalt	<0.00040		0.0025	0.00040	mg/L		12/14/16 08:30	12/14/16 15:44	5
Lead	<0.00035		0.0013	0.00035	mg/L		12/14/16 08:30	12/14/16 15:44	5
Lithium	<0.0032		0.0050	0.0032	mg/L		12/14/16 08:30	12/14/16 15:44	5
Molybdenum	<0.00085		0.015	0.00085	mg/L		12/14/16 08:30	12/14/16 15:44	5
Selenium	<0.00024		0.0013	0.00024	mg/L		12/14/16 08:30	12/14/16 15:44	5
Thallium	<0.000085		0.00050	0.000085	mg/L		12/14/16 08:30	12/14/16 15:44	5

Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.000070		0.00020	0.000070	mg/L		12/14/16 12:21	12/15/16 10:00	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	<3.4		5.0	3.4	mg/L			12/14/16 17:00	1

Definitions/Glossary

Client: Southern Company
Project/Site: CCR Plant Scherer

TestAmerica Job ID: 400-131380-1
SDG: Ash Pond

Qualifiers

HPLC/IC

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.
E	Result exceeded calibration range.
F1	MS and/or MSD Recovery is outside acceptance limits.

Metals

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

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
α	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CNF	Contains no Free Liquid
DER	Duplicate error ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision level concentration
MDA	Minimum detectable activity
EDL	Estimated Detection Limit
MDC	Minimum detectable concentration
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
NC	Not Calculated
ND	Not detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RER	Relative error ratio
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)

Lab Chronicle

Client: Southern Company
Project/Site: CCR Plant Scherer

TestAmerica Job ID: 400-131380-1
SDG: Ash Pond

Client Sample ID: SGWC-20

Lab Sample ID: 400-131380-1

Date Collected: 12/08/16 10:05

Matrix: Water

Date Received: 12/09/16 09:11

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	300.0		1	334998	12/14/16 17:49	TAJ	TAL PEN
Total/NA	Analysis	300.0		10	335192	12/15/16 19:10	TAJ	TAL PEN
Total Recoverable	Prep	3005A	DL		334835	12/14/16 08:30	RJB	TAL PEN
Total Recoverable	Analysis	6020	DL	50	335038	12/14/16 15:49	AJR	TAL PEN
Total Recoverable	Prep	3005A			334835	12/14/16 08:30	RJB	TAL PEN
Total Recoverable	Analysis	6020		5	335038	12/14/16 16:38	AJR	TAL PEN
Total/NA	Prep	7470A			334987	12/14/16 12:21	JAP	TAL PEN
Total/NA	Analysis	7470A		1	335175	12/15/16 09:50	JAP	TAL PEN
Total/NA	Analysis	SM 2540C		1	335046	12/14/16 17:00	RRC	TAL PEN

Client Sample ID: SGWC-19

Lab Sample ID: 400-131380-2

Date Collected: 12/08/16 10:11

Matrix: Water

Date Received: 12/09/16 09:11

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	300.0		1	334998	12/14/16 18:11	TAJ	TAL PEN
Total/NA	Analysis	300.0		10	335192	12/15/16 19:33	TAJ	TAL PEN
Total Recoverable	Prep	3005A	DL		334835	12/14/16 08:30	RJB	TAL PEN
Total Recoverable	Analysis	6020	DL	50	335038	12/14/16 15:53	AJR	TAL PEN
Total Recoverable	Prep	3005A			334835	12/14/16 08:30	RJB	TAL PEN
Total Recoverable	Analysis	6020		5	335038	12/14/16 16:43	AJR	TAL PEN
Total/NA	Prep	7470A			334987	12/14/16 12:21	JAP	TAL PEN
Total/NA	Analysis	7470A		1	335175	12/15/16 09:52	JAP	TAL PEN
Total/NA	Analysis	SM 2540C		1	335046	12/14/16 17:00	RRC	TAL PEN

Client Sample ID: EB-1 (AP)

Lab Sample ID: 400-131380-3

Date Collected: 12/08/16 10:55

Matrix: Water

Date Received: 12/09/16 09:11

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	300.0		1	334998	12/14/16 18:34	TAJ	TAL PEN
Total Recoverable	Prep	3005A			334835	12/14/16 08:30	RJB	TAL PEN
Total Recoverable	Analysis	6020		5	335038	12/14/16 15:35	AJR	TAL PEN
Total/NA	Prep	7470A			334987	12/14/16 12:21	JAP	TAL PEN
Total/NA	Analysis	7470A		1	335175	12/15/16 09:57	JAP	TAL PEN
Total/NA	Analysis	SM 2540C		1	335046	12/14/16 17:00	RRC	TAL PEN

Lab Chronicle

Client: Southern Company
Project/Site: CCR Plant Scherer

TestAmerica Job ID: 400-131380-1
SDG: Ash Pond

Client Sample ID: EB-2 (AP)

Lab Sample ID: 400-131380-4

Date Collected: 12/08/16 11:10

Matrix: Water

Date Received: 12/09/16 09:11

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	300.0		1	334998	12/14/16 18:57	TAJ	TAL PEN
Total Recoverable	Prep	3005A			334835	12/14/16 08:30	RJB	TAL PEN
Total Recoverable	Analysis	6020		5	335038	12/14/16 15:40	AJR	TAL PEN
Total/NA	Prep	7470A			334987	12/14/16 12:21	JAP	TAL PEN
Total/NA	Analysis	7470A		1	335175	12/15/16 09:59	JAP	TAL PEN
Total/NA	Analysis	SM 2540C		1	335046	12/14/16 17:00	RRC	TAL PEN

Client Sample ID: EB-3 (AP)

Lab Sample ID: 400-131380-5

Date Collected: 12/08/16 11:25

Matrix: Water

Date Received: 12/09/16 09:11

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	300.0		1	334998	12/14/16 19:43	TAJ	TAL PEN
Total Recoverable	Prep	3005A			334835	12/14/16 08:30	RJB	TAL PEN
Total Recoverable	Analysis	6020		5	335038	12/14/16 15:44	AJR	TAL PEN
Total/NA	Prep	7470A			334987	12/14/16 12:21	JAP	TAL PEN
Total/NA	Analysis	7470A		1	335175	12/15/16 10:00	JAP	TAL PEN
Total/NA	Analysis	SM 2540C		1	335046	12/14/16 17:00	RRC	TAL PEN

Laboratory References:

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

QC Association Summary

Client: Southern Company
Project/Site: CCR Plant Scherer

TestAmerica Job ID: 400-131380-1
SDG: Ash Pond

HPLC/IC

Analysis Batch: 334998

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-131380-1	SGWC-20	Total/NA	Water	300.0	
400-131380-2	SGWC-19	Total/NA	Water	300.0	
400-131380-3	EB-1 (AP)	Total/NA	Water	300.0	
400-131380-4	EB-2 (AP)	Total/NA	Water	300.0	
400-131380-5	EB-3 (AP)	Total/NA	Water	300.0	
MB 400-334998/4	Method Blank	Total/NA	Water	300.0	
LCS 400-334998/5	Lab Control Sample	Total/NA	Water	300.0	
LCS D 400-334998/6	Lab Control Sample Dup	Total/NA	Water	300.0	
400-130354-J-1 MS	Matrix Spike	Total/NA	Water	300.0	
400-130354-J-1 MSD	Matrix Spike Duplicate	Total/NA	Water	300.0	

Analysis Batch: 335192

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-131380-1	SGWC-20	Total/NA	Water	300.0	
400-131380-2	SGWC-19	Total/NA	Water	300.0	
MB 400-335192/4	Method Blank	Total/NA	Water	300.0	
LCS 400-335192/5	Lab Control Sample	Total/NA	Water	300.0	
LCS D 400-335192/6	Lab Control Sample Dup	Total/NA	Water	300.0	
400-131542-A-4 MS	Matrix Spike	Total/NA	Water	300.0	
400-131542-A-4 MSD	Matrix Spike Duplicate	Total/NA	Water	300.0	

Metals

Prep Batch: 334835

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-131380-1 - DL	SGWC-20	Total Recoverable	Water	3005A	
400-131380-1	SGWC-20	Total Recoverable	Water	3005A	
400-131380-2	SGWC-19	Total Recoverable	Water	3005A	
400-131380-2 - DL	SGWC-19	Total Recoverable	Water	3005A	
400-131380-3	EB-1 (AP)	Total Recoverable	Water	3005A	
400-131380-4	EB-2 (AP)	Total Recoverable	Water	3005A	
400-131380-5	EB-3 (AP)	Total Recoverable	Water	3005A	
MB 400-334835/1-A ^5	Method Blank	Total Recoverable	Water	3005A	
LCS 400-334835/2-A	Lab Control Sample	Total Recoverable	Water	3005A	
400-131354-B-4-B MS ^5	Matrix Spike	Total Recoverable	Water	3005A	
400-131354-B-4-C MSD ^5	Matrix Spike Duplicate	Total Recoverable	Water	3005A	

Prep Batch: 334987

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-131380-1	SGWC-20	Total/NA	Water	7470A	
400-131380-2	SGWC-19	Total/NA	Water	7470A	
400-131380-3	EB-1 (AP)	Total/NA	Water	7470A	
400-131380-4	EB-2 (AP)	Total/NA	Water	7470A	
400-131380-5	EB-3 (AP)	Total/NA	Water	7470A	
MB 400-334987/14-A	Method Blank	Total/NA	Water	7470A	
LCS 400-334987/15-A	Lab Control Sample	Total/NA	Water	7470A	
400-131380-2 MS	SGWC-19	Total/NA	Water	7470A	
400-131380-2 MSD	SGWC-19	Total/NA	Water	7470A	

QC Association Summary

Client: Southern Company
 Project/Site: CCR Plant Scherer

TestAmerica Job ID: 400-131380-1
 SDG: Ash Pond

Metals (Continued)

Analysis Batch: 335038

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-131380-1 - DL	SGWC-20	Total Recoverable	Water	6020	334835
400-131380-1	SGWC-20	Total Recoverable	Water	6020	334835
400-131380-2 - DL	SGWC-19	Total Recoverable	Water	6020	334835
400-131380-2	SGWC-19	Total Recoverable	Water	6020	334835
400-131380-3	EB-1 (AP)	Total Recoverable	Water	6020	334835
400-131380-4	EB-2 (AP)	Total Recoverable	Water	6020	334835
400-131380-5	EB-3 (AP)	Total Recoverable	Water	6020	334835
MB 400-334835/1-A ^5	Method Blank	Total Recoverable	Water	6020	334835
LCS 400-334835/2-A	Lab Control Sample	Total Recoverable	Water	6020	334835
400-131354-B-4-B MS ^5	Matrix Spike	Total Recoverable	Water	6020	334835
400-131354-B-4-C MSD ^5	Matrix Spike Duplicate	Total Recoverable	Water	6020	334835

Analysis Batch: 335175

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-131380-1	SGWC-20	Total/NA	Water	7470A	334987
400-131380-2	SGWC-19	Total/NA	Water	7470A	334987
400-131380-3	EB-1 (AP)	Total/NA	Water	7470A	334987
400-131380-4	EB-2 (AP)	Total/NA	Water	7470A	334987
400-131380-5	EB-3 (AP)	Total/NA	Water	7470A	334987
MB 400-334987/14-A	Method Blank	Total/NA	Water	7470A	334987
LCS 400-334987/15-A	Lab Control Sample	Total/NA	Water	7470A	334987
400-131380-2 MS	SGWC-19	Total/NA	Water	7470A	334987
400-131380-2 MSD	SGWC-19	Total/NA	Water	7470A	334987

General Chemistry

Analysis Batch: 335046

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-131380-1	SGWC-20	Total/NA	Water	SM 2540C	
400-131380-2	SGWC-19	Total/NA	Water	SM 2540C	
400-131380-3	EB-1 (AP)	Total/NA	Water	SM 2540C	
400-131380-4	EB-2 (AP)	Total/NA	Water	SM 2540C	
400-131380-5	EB-3 (AP)	Total/NA	Water	SM 2540C	
MB 400-335046/1	Method Blank	Total/NA	Water	SM 2540C	
LCS 400-335046/2	Lab Control Sample	Total/NA	Water	SM 2540C	
400-131380-1 DU	SGWC-20	Total/NA	Water	SM 2540C	
400-131380-2 DU	SGWC-19	Total/NA	Water	SM 2540C	

QC Sample Results

Client: Southern Company
Project/Site: CCR Plant Scherer

TestAmerica Job ID: 400-131380-1
SDG: Ash Pond

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 400-334998/4
Matrix: Water
Analysis Batch: 334998

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<0.89		1.0	0.89	mg/L			12/14/16 12:02	1
Fluoride	<0.082		0.20	0.082	mg/L			12/14/16 12:02	1
Sulfate	<0.70		1.0	0.70	mg/L			12/14/16 12:02	1

Lab Sample ID: LCS 400-334998/5
Matrix: Water
Analysis Batch: 334998

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloride	10.0	9.51		mg/L		95	90 - 110
Fluoride	10.0	10.8		mg/L		108	90 - 110
Sulfate	10.0	9.89		mg/L		99	90 - 110

Lab Sample ID: LCSD 400-334998/6
Matrix: Water
Analysis Batch: 334998

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
Chloride	10.0	9.63		mg/L		96	90 - 110	1	15
Fluoride	10.0	10.7		mg/L		107	90 - 110	1	15
Sulfate	10.0	9.98		mg/L		100	90 - 110	1	15

Lab Sample ID: 400-130354-J-1 MS
Matrix: Water
Analysis Batch: 334998

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	60		50.0	106		mg/L		92	80 - 120
Fluoride	<0.41		50.0	57.1		mg/L		114	80 - 120
Sulfate	43		50.0	92.9		mg/L		101	80 - 120

Lab Sample ID: 400-130354-J-1 MSD
Matrix: Water
Analysis Batch: 334998

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	60		50.0	106		mg/L		92	80 - 120	0	20
Fluoride	<0.41		50.0	55.7		mg/L		111	80 - 120	2	20
Sulfate	43		50.0	93.5		mg/L		102	80 - 120	1	20

Lab Sample ID: MB 400-335192/4
Matrix: Water
Analysis Batch: 335192

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<0.89		1.0	0.89	mg/L			12/15/16 15:22	1
Fluoride	<0.082		0.20	0.082	mg/L			12/15/16 15:22	1
Sulfate	<0.70		1.0	0.70	mg/L			12/15/16 15:22	1

QC Sample Results

Client: Southern Company
Project/Site: CCR Plant Scherer

TestAmerica Job ID: 400-131380-1
SDG: Ash Pond

Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: LCS 400-335192/5

Matrix: Water

Analysis Batch: 335192

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloride	10.0	9.42		mg/L		94	90 - 110
Fluoride	10.0	11.0		mg/L		110	90 - 110
Sulfate	10.0	9.97		mg/L		100	90 - 110

Lab Sample ID: LCSD 400-335192/6

Matrix: Water

Analysis Batch: 335192

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
Chloride	10.0	9.40		mg/L		94	90 - 110	0	15
Fluoride	10.0	11.0		mg/L		110	90 - 110	0	15
Sulfate	10.0	9.99		mg/L		100	90 - 110	0	15

Lab Sample ID: 400-131542-A-4 MS

Matrix: Water

Analysis Batch: 335192

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	260	E	10.0	262	E 4	mg/L		53	80 - 120
Fluoride	0.17	J F1	10.0	12.4	F1	mg/L		122	80 - 120
Sulfate	590	E	10.0	613	E 4	mg/L		245	80 - 120

Lab Sample ID: 400-131542-A-4 MSD

Matrix: Water

Analysis Batch: 335192

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	260	E	10.0	263	E 4	mg/L		60	80 - 120	0	20
Fluoride	0.17	J F1	10.0	12.4	F1	mg/L		122	80 - 120	0	20
Sulfate	590	E	10.0	615	E 4	mg/L		272	80 - 120	0	20

Method: 6020 - Metals (ICP/MS)

Lab Sample ID: MB 400-334835/1-A ^5

Matrix: Water

Analysis Batch: 335038

Client Sample ID: Method Blank

Prep Type: Total Recoverable

Prep Batch: 334835

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0010		0.0025	0.0010	mg/L		12/14/16 08:30	12/14/16 15:26	5
Arsenic	<0.00046		0.0013	0.00046	mg/L		12/14/16 08:30	12/14/16 15:26	5
Barium	<0.00049		0.0025	0.00049	mg/L		12/14/16 08:30	12/14/16 15:26	5
Beryllium	<0.00034		0.0025	0.00034	mg/L		12/14/16 08:30	12/14/16 15:26	5
Boron	<0.021		0.050	0.021	mg/L		12/14/16 08:30	12/14/16 15:26	5
Cadmium	<0.00034		0.0025	0.00034	mg/L		12/14/16 08:30	12/14/16 15:26	5
Calcium	<0.13		0.25	0.13	mg/L		12/14/16 08:30	12/14/16 15:26	5
Chromium	<0.0011		0.0025	0.0011	mg/L		12/14/16 08:30	12/14/16 15:26	5
Cobalt	<0.00040		0.0025	0.00040	mg/L		12/14/16 08:30	12/14/16 15:26	5
Lead	<0.00035		0.0013	0.00035	mg/L		12/14/16 08:30	12/14/16 15:26	5
Lithium	<0.0032		0.0050	0.0032	mg/L		12/14/16 08:30	12/14/16 15:26	5

TestAmerica Pensacola

QC Sample Results

Client: Southern Company
Project/Site: CCR Plant Scherer

TestAmerica Job ID: 400-131380-1
SDG: Ash Pond

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

Lab Sample ID: MB 400-334835/1-A ^5
Matrix: Water
Analysis Batch: 335038

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 334835

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Molybdenum	<0.00085		0.015	0.00085	mg/L		12/14/16 08:30	12/14/16 15:26	5
Selenium	<0.00024		0.0013	0.00024	mg/L		12/14/16 08:30	12/14/16 15:26	5
Thallium	<0.000085		0.00050	0.000085	mg/L		12/14/16 08:30	12/14/16 15:26	5

Lab Sample ID: LCS 400-334835/2-A
Matrix: Water
Analysis Batch: 335038

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 334835

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec.	
							Limits	
Antimony	0.0500	0.0523		mg/L		105	80 - 120	
Arsenic	0.0500	0.0495		mg/L		99	80 - 120	
Barium	0.0500	0.0482		mg/L		96	80 - 120	
Beryllium	0.0500	0.0497		mg/L		99	80 - 120	
Boron	0.100	0.0976		mg/L		98	80 - 120	
Cadmium	0.0500	0.0492		mg/L		98	80 - 120	
Calcium	5.00	4.79		mg/L		96	80 - 120	
Chromium	0.0500	0.0476		mg/L		95	80 - 120	
Cobalt	0.0500	0.0490		mg/L		98	80 - 120	
Lead	0.0500	0.0485		mg/L		97	80 - 120	
Lithium	0.0500	0.0506		mg/L		101	80 - 120	
Molybdenum	0.0500	0.0500		mg/L		100	80 - 120	
Selenium	0.0500	0.0491		mg/L		98	80 - 120	
Thallium	0.0100	0.00989		mg/L		99	80 - 120	

Lab Sample ID: 400-131354-B-4-B MS ^5
Matrix: Water
Analysis Batch: 335038

Client Sample ID: Matrix Spike
Prep Type: Total Recoverable
Prep Batch: 334835

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec.	
									Limits	
Antimony	<0.0010		0.0500	0.0569		mg/L		114	75 - 125	
Arsenic	<0.00046		0.0500	0.0505		mg/L		101	75 - 125	
Barium	0.11		0.0500	0.157		mg/L		98	75 - 125	
Beryllium	<0.00034		0.0500	0.0513		mg/L		103	75 - 125	
Boron	0.10		0.100	0.212		mg/L		111	75 - 125	
Cadmium	<0.00034		0.0500	0.0519		mg/L		104	75 - 125	
Calcium	18		5.00	22.8		mg/L		89	75 - 125	
Chromium	<0.0011		0.0500	0.0483		mg/L		97	75 - 125	
Cobalt	<0.00040		0.0500	0.0503		mg/L		101	75 - 125	
Lead	<0.00035		0.0500	0.0499		mg/L		100	75 - 125	
Lithium	0.019		0.0500	0.0719		mg/L		107	75 - 125	
Molybdenum	<0.00085		0.0500	0.0511		mg/L		102	75 - 125	
Selenium	<0.00024		0.0500	0.0485		mg/L		97	75 - 125	
Thallium	<0.000085		0.0100	0.0102		mg/L		102	75 - 125	

QC Sample Results

Client: Southern Company
Project/Site: CCR Plant Scherer

TestAmerica Job ID: 400-131380-1
SDG: Ash Pond

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

Lab Sample ID: 400-131354-B-4-C MSD ^5
Matrix: Water
Analysis Batch: 335038

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total Recoverable
Prep Batch: 334835

Analyte	Sample	Sample Qualifier	Spike Added	MSD	MSD Qualifier	Unit	D	%Rec	%Rec.		RPD	Limit
	Result			Result					Limits	RPD		
Antimony	<0.0010		0.0500	0.0565		mg/L		113	75 - 125	1	20	
Arsenic	<0.00046		0.0500	0.0509		mg/L		102	75 - 125	1	20	
Barium	0.11		0.0500	0.159		mg/L		102	75 - 125	1	20	
Beryllium	<0.00034		0.0500	0.0499		mg/L		100	75 - 125	3	20	
Boron	0.10		0.100	0.203		mg/L		101	75 - 125	5	20	
Cadmium	<0.00034		0.0500	0.0525		mg/L		105	75 - 125	1	20	
Calcium	18		5.00	23.1		mg/L		96	75 - 125	2	20	
Chromium	<0.0011		0.0500	0.0494		mg/L		99	75 - 125	2	20	
Cobalt	<0.00040		0.0500	0.0504		mg/L		101	75 - 125	0	20	
Lead	<0.00035		0.0500	0.0495		mg/L		99	75 - 125	1	20	
Lithium	0.019		0.0500	0.0688		mg/L		101	75 - 125	4	20	
Molybdenum	<0.00085		0.0500	0.0515		mg/L		103	75 - 125	1	20	
Selenium	<0.00024		0.0500	0.0476		mg/L		95	75 - 125	2	20	
Thallium	<0.00085		0.0100	0.00986		mg/L		99	75 - 125	3	20	

Method: 7470A - Mercury (CVAA)

Lab Sample ID: MB 400-334987/14-A
Matrix: Water
Analysis Batch: 335175

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 334987

Analyte	MB	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result								
Mercury	<0.000070		0.00020	0.000070	mg/L		12/14/16 12:21	12/15/16 09:48	1

Lab Sample ID: LCS 400-334987/15-A
Matrix: Water
Analysis Batch: 335175

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 334987

Analyte	Spike Added	LCS	LCS Qualifier	Unit	D	%Rec	%Rec.	
		Result					Limits	RPD
Mercury	0.00101	0.000936		mg/L		93	80 - 120	

Lab Sample ID: 400-131380-2 MS
Matrix: Water
Analysis Batch: 335175

Client Sample ID: SGWC-19
Prep Type: Total/NA
Prep Batch: 334987

Analyte	Sample	Sample Qualifier	Spike Added	MS	MS Qualifier	Unit	D	%Rec	%Rec.	
	Result			Result					Limits	RPD
Mercury	<0.000070		0.00201	0.00201		mg/L		100	80 - 120	

Lab Sample ID: 400-131380-2 MSD
Matrix: Water
Analysis Batch: 335175

Client Sample ID: SGWC-19
Prep Type: Total/NA
Prep Batch: 334987

Analyte	Sample	Sample Qualifier	Spike Added	MSD	MSD Qualifier	Unit	D	%Rec	%Rec.		RPD	Limit
	Result			Result					Limits	RPD		
Mercury	<0.000070		0.00201	0.00214		mg/L		106	80 - 120	6	20	

QC Sample Results

Client: Southern Company
Project/Site: CCR Plant Scherer

TestAmerica Job ID: 400-131380-1
SDG: Ash Pond

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

Lab Sample ID: MB 400-335046/1
Matrix: Water
Analysis Batch: 335046

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	<3.4		5.0	3.4	mg/L			12/14/16 17:00	1

Lab Sample ID: LCS 400-335046/2
Matrix: Water
Analysis Batch: 335046

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: 400-131380-1 DU
Matrix: Water
Analysis Batch: 335046

Client Sample ID: SGWC-20
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Total Dissolved Solids	370		366		mg/L		0.5	5


Lab Sample ID: 400-131380-2 DU
Matrix: Water
Analysis Batch: 335046

Client Sample ID: SGWC-19
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Total Dissolved Solids	350		348		mg/L		0	5

Chain of Custody Record



Client Information Client Contact: Joli Abraham Company: Southern Company Address: 241 Ralph McGill Blvd SE B10185 City: Atlanta State, Zip: GA, 30308 Phone: 404-526-4814 Email: JAbraham@southernco.com Project Name: CCR - Scherer Site: Ash Pond		Lab P/N: Whitire, Cheyenne R E-Mail: cheyenne.whitire@testamericainc.com Due Date Requested: TAT Requested (days): PO #: GPC10624814 WO #: 40007041 Project #: 40007041 SSO/W#:		COC No: 400-57303-24790.8 Page: Page 8 of 8 Job #: 400-131380 Carrier Tracking No(s):			
Analysis Requested 2540C-TDS, 300_ORGM_28D-Chloride, Fluoride, Sulfate 6020-Sp,As,Ba,Bi,Ca,Cd,Cr,Cu,Pb,LI,Mo,Se,Ti, 7470A-Hg 9316_Fa228, 9320_Fa228, Ra228Ra228, GPPC  400-131380 COC		Field Filtered Sample (Yes or No) Preservation Codes: M - Hexane A - HCL B - NaOH C - Zn Acetate D - Nitric Acid E - NH4SO4 F - MeOH G - Antohlor H - Ascorbic Acid I - Ice J - DI Water K - EDTA L - EDA Other:		Total Number of Containers Special Instructions/Note:			
Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	MATRIX (W=water, S=solid, O=waterfall, BT=Tissue, A=air)	Field Filtered Sample (Yes or No)	PID	ID
SGWC-20	12/8/16	1005	G	Water	N	1	1
SGWC-19	12/8/16	1011	G	Water	N	1	1
EB-1(AP)	12/8/16	1055	G	Water	N	1	1
EB-2(AP)	12/8/16	1110	G	Water	N	1	1
EB-3(AP)	12/8/16	1125	G	Water	N	1	1
Possible Hazard Identification <input checked="" type="checkbox"/> Non-Hazard <input type="checkbox"/> Flammable <input type="checkbox"/> Skin Irritant <input type="checkbox"/> Poison B <input type="checkbox"/> Unknown <input type="checkbox"/> Radiological							
Deliverable Requested: I, II, III, IV, Other (specify)							
Empty Kit Relinquished by:				Date:			
Relinquished by: <i>[Signature]</i>				Date/Time: 12/8/16 1430			
Relinquished by:				Date/Time:			
Relinquished by:				Date/Time:			
Custody Seals Intact: <input type="checkbox"/> Yes <input type="checkbox"/> No				Custody Seal No.:			
Special Instructions/QC Requirements: Please send a copy of report to Heath McCorkle and Maria Padilla				Sample Disposal (A fee may be assessed if samples are retained longer than 1 month) <input type="checkbox"/> Return To Client <input checked="" type="checkbox"/> Disposal By Lab <input type="checkbox"/> Archive For _____ Months			
Method of Shipment:				Received by:			
Received by:				Date/Time:			
Received by:				Date/Time: 12-8-16 9:11			
Cooler Temperature(s) °C and Other Remarks: 4.1°C, 9.0°C, 12.6				Company:			

Login Sample Receipt Checklist

Client: Southern Company

Job Number: 400-131380-1

SDG Number: Ash Pond

Login Number: 131380

List Source: TestAmerica Pensacola

List Number: 1

Creator: Siddoway, Benjamin

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	4.1°C, 4.0°C IR-6
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	

Certification Summary

Client: Southern Company
 Project/Site: CCR Plant Scherer

TestAmerica Job ID: 400-131380-1
 SDG: Ash Pond

Laboratory: TestAmerica Pensacola

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

Authority	Program	EPA Region	Certification ID	Expiration Date
Alabama	State Program	4	40150	06-30-17
Arizona	State Program	9	AZ0710	01-11-18
Arkansas DEQ	State Program	6	88-0689	09-01-17
California	ELAP	9	2510	03-31-18
Florida	NELAP	4	E81010	06-30-17
Georgia	State Program	4	N/A	06-30-17
Illinois	NELAP	5	200041	10-09-17
Iowa	State Program	7	367	08-01-18
Kansas	NELAP	7	E-10253	10-31-17
Kentucky (UST)	State Program	4	53	06-30-17
Kentucky (WW)	State Program	4	98030	12-31-16
Louisiana	NELAP	6	30976	06-30-17
Louisiana (DW)	NELAP Secondary AB	6	LA170005	12-31-17
Maryland	State Program	3	233	09-30-17
Massachusetts	State Program	1	M-FL094	06-30-17
Michigan	State Program	5	9912	05-06-17
New Jersey	NELAP	2	FL006	06-30-17
North Carolina (WW/SW)	State Program	4	314	12-31-16
Oklahoma	State Program	6	9810	08-31-17
Pennsylvania	NELAP	3	68-00467	01-31-17
Rhode Island	State Program	1	LAO00307	12-30-16
South Carolina	State Program	4	96026	06-30-17
Tennessee	State Program	4	TN02907	06-30-17
Texas	NELAP	6	T104704286-16-10	09-30-17
USDA	Federal		P330-16-00172	05-24-19
Virginia	NELAP	3	460166	06-14-17
Washington	State Program	10	C915	05-15-17
West Virginia DEP	State Program	3	136	06-30-17



TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

TestAmerica Laboratories, Inc.

TestAmerica Pensacola

3355 McLemore Drive

Pensacola, FL 32514

Tel: (850)474-1001

TestAmerica Job ID: 400-131380-2

TestAmerica Sample Delivery Group: Ash Pond

Client Project/Site: CCR Plant Scherer

For:

Southern Company

241 Ralph McGill Blvd SE

B10185

Atlanta, Georgia 30308

Attn: Joju Abraham



Authorized for release by:

1/29/2017 11:06:32 AM

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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.

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4

5

6

7

8

9

10

11

12



Table of Contents

Cover Page	1
Table of Contents	2
Method Summary	3
Sample Summary	4
Client Sample Results	5
Definitions	10
Chronicle	11
QC Association	13
QC Sample Results	14
Chain of Custody	18
Receipt Checklists	19
Certification Summary	20

Method Summary

Client: Southern Company
Project/Site: CCR Plant Scherer

TestAmerica Job ID: 400-131380-2
SDG: Ash Pond

Method	Method Description	Protocol	Laboratory
9315	Radium-226 (GFPC)	SW846	TAL SL
9320	Radium-228 (GFPC)	SW846	TAL SL
Ra226_Ra228	Combined Radium-226 and Radium-228	TAL-STL	TAL SL

Protocol References:

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:

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



Sample Summary

Client: Southern Company
Project/Site: CCR Plant Scherer

TestAmerica Job ID: 400-131380-2
SDG: Ash Pond

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
400-131380-1	SGWC-20	Water	12/08/16 10:05	12/09/16 09:11
400-131380-2	SGWC-19	Water	12/08/16 10:11	12/09/16 09:11
400-131380-3	EB-1 (AP)	Water	12/08/16 10:55	12/09/16 09:11
400-131380-4	EB-2 (AP)	Water	12/08/16 11:10	12/09/16 09:11
400-131380-5	EB-3 (AP)	Water	12/08/16 11:25	12/09/16 09:11

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Client Sample Results

Client: Southern Company
Project/Site: CCR Plant Scherer

TestAmerica Job ID: 400-131380-2
SDG: Ash Pond

Client Sample ID: SGWC-20

Date Collected: 12/08/16 10:05

Date Received: 12/09/16 09:11

Lab Sample ID: 400-131380-1

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	0.188	U	0.318	0.319	1.00	0.556	pCi/L	12/20/16 09:20	01/19/17 19:18	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	58.7		40 - 110					12/20/16 09:20	01/19/17 19:18	1

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.875		0.417	0.425	1.00	0.612	pCi/L	12/20/16 10:37	01/19/17 14:29	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	58.7		40 - 110					12/20/16 10:37	01/19/17 14:29	1
Y Carrier	95.0		40 - 110					12/20/16 10:37	01/19/17 14:29	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	1.06		0.525	0.531	5.00	0.612	pCi/L		01/24/17 09:40	1

Client Sample Results

Client: Southern Company
Project/Site: CCR Plant Scherer

TestAmerica Job ID: 400-131380-2
SDG: Ash Pond

Client Sample ID: SGWC-19

Lab Sample ID: 400-131380-2

Date Collected: 12/08/16 10:11

Matrix: Water

Date Received: 12/09/16 09:11

Method: 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.226	U	0.288	0.288	1.00	0.478	pCi/L	12/20/16 09:20	01/19/17 19:18	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	76.1		40 - 110					12/20/16 09:20	01/19/17 19:18	1

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.205	U	0.265	0.265	1.00	0.440	pCi/L	12/20/16 10:37	01/19/17 14:29	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	76.1		40 - 110					12/20/16 10:37	01/19/17 14:29	1
Y Carrier	97.9		40 - 110					12/20/16 10:37	01/19/17 14:29	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	0.431	U	0.391	0.392	5.00	0.478	pCi/L		01/24/17 09:40	1

Client Sample Results

Client: Southern Company
Project/Site: CCR Plant Scherer

TestAmerica Job ID: 400-131380-2
SDG: Ash Pond

Client Sample ID: EB-1 (AP)

Lab Sample ID: 400-131380-3

Date Collected: 12/08/16 10:55

Matrix: Water

Date Received: 12/09/16 09:11

Method: 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.341	U	0.272	0.273	1.00	0.397	pCi/L	12/20/16 09:20	01/19/17 21:44	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	77.5		40 - 110					12/20/16 09:20	01/19/17 21:44	1

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.196	U	0.259	0.260	1.00	0.432	pCi/L	12/20/16 10:37	01/19/17 14:29	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	77.5		40 - 110					12/20/16 10:37	01/19/17 14:29	1
Y Carrier	95.0		40 - 110					12/20/16 10:37	01/19/17 14:29	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	0.537		0.375	0.377	5.00	0.432	pCi/L		01/24/17 09:40	1

Client Sample Results

Client: Southern Company
Project/Site: CCR Plant Scherer

TestAmerica Job ID: 400-131380-2
SDG: Ash Pond

Client Sample ID: EB-2 (AP)

Lab Sample ID: 400-131380-4

Date Collected: 12/08/16 11:10

Matrix: Water

Date Received: 12/09/16 09:11

Method: 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.174	U	0.223	0.224	1.00	0.372	pCi/L	12/20/16 09:20	01/19/17 21:44	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	85.8		40 - 110					12/20/16 09:20	01/19/17 21:44	1

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.257	U	0.259	0.260	1.00	0.422	pCi/L	12/20/16 10:37	01/19/17 14:29	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	85.8		40 - 110					12/20/16 10:37	01/19/17 14:29	1
Y Carrier	94.2		40 - 110					12/20/16 10:37	01/19/17 14:29	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	0.431		0.342	0.343	5.00	0.422	pCi/L		01/24/17 09:40	1

Client Sample Results

Client: Southern Company
Project/Site: CCR Plant Scherer

TestAmerica Job ID: 400-131380-2
SDG: Ash Pond

Client Sample ID: EB-3 (AP)

Lab Sample ID: 400-131380-5

Date Collected: 12/08/16 11:25

Matrix: Water

Date Received: 12/09/16 09:11

Method: 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.0399	U	0.184	0.184	1.00	0.362	pCi/L	12/20/16 09:20	01/19/17 21:44	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	82.3		40 - 110					12/20/16 09:20	01/19/17 21:44	1

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.128	U	0.223	0.223	1.00	0.379	pCi/L	12/20/16 10:37	01/19/17 14:29	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	82.3		40 - 110					12/20/16 10:37	01/19/17 14:29	1
Y Carrier	96.1		40 - 110					12/20/16 10:37	01/19/17 14:29	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	0.168	U	0.289	0.289	5.00	0.379	pCi/L		01/24/17 09:40	1

Definitions/Glossary

Client: Southern Company
Project/Site: CCR Plant Scherer

TestAmerica Job ID: 400-131380-2
SDG: Ash Pond

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
CNF	Contains no Free Liquid
DER	Duplicate error ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision level concentration
MDA	Minimum detectable activity
EDL	Estimated Detection Limit
MDC	Minimum detectable concentration
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
NC	Not Calculated
ND	Not detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RER	Relative error ratio
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)

Lab Chronicle

Client: Southern Company
Project/Site: CCR Plant Scherer

TestAmerica Job ID: 400-131380-2
SDG: Ash Pond

Client Sample ID: SGWC-20

Date Collected: 12/08/16 10:05

Date Received: 12/09/16 09:11

Lab Sample ID: 400-131380-1

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			284690	12/20/16 09:20	AS	TAL SL
Total/NA	Analysis	9315		1	288249	01/19/17 19:18	RTM	TAL SL
Total/NA	Prep	PrecSep_0			284709	12/20/16 10:37	AS	TAL SL
Total/NA	Analysis	9320		1	288247	01/19/17 14:29	RTM	TAL SL
Total/NA	Analysis	Ra226_Ra228		1	289034	01/24/17 09:40	RTM	TAL SL

Client Sample ID: SGWC-19

Date Collected: 12/08/16 10:11

Date Received: 12/09/16 09:11

Lab Sample ID: 400-131380-2

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			284690	12/20/16 09:20	AS	TAL SL
Total/NA	Analysis	9315		1	288249	01/19/17 19:18	RTM	TAL SL
Total/NA	Prep	PrecSep_0			284709	12/20/16 10:37	AS	TAL SL
Total/NA	Analysis	9320		1	288247	01/19/17 14:29	RTM	TAL SL
Total/NA	Analysis	Ra226_Ra228		1	289034	01/24/17 09:40	RTM	TAL SL

Client Sample ID: EB-1 (AP)

Date Collected: 12/08/16 10:55

Date Received: 12/09/16 09:11

Lab Sample ID: 400-131380-3

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			284690	12/20/16 09:20	AS	TAL SL
Total/NA	Analysis	9315		1	288249	01/19/17 21:44	RTM	TAL SL
Total/NA	Prep	PrecSep_0			284709	12/20/16 10:37	AS	TAL SL
Total/NA	Analysis	9320		1	288247	01/19/17 14:29	RTM	TAL SL
Total/NA	Analysis	Ra226_Ra228		1	289034	01/24/17 09:40	RTM	TAL SL

Client Sample ID: EB-2 (AP)

Date Collected: 12/08/16 11:10

Date Received: 12/09/16 09:11

Lab Sample ID: 400-131380-4

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			284690	12/20/16 09:20	AS	TAL SL
Total/NA	Analysis	9315		1	288249	01/19/17 21:44	RTM	TAL SL
Total/NA	Prep	PrecSep_0			284709	12/20/16 10:37	AS	TAL SL
Total/NA	Analysis	9320		1	288247	01/19/17 14:29	RTM	TAL SL
Total/NA	Analysis	Ra226_Ra228		1	289034	01/24/17 09:40	RTM	TAL SL

Lab Chronicle

Client: Southern Company
Project/Site: CCR Plant Scherer

TestAmerica Job ID: 400-131380-2
SDG: Ash Pond

Client Sample ID: EB-3 (AP)

Lab Sample ID: 400-131380-5

Date Collected: 12/08/16 11:25

Matrix: Water

Date Received: 12/09/16 09:11

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			284690	12/20/16 09:20	AS	TAL SL
Total/NA	Analysis	9315		1	288249	01/19/17 21:44	RTM	TAL SL
Total/NA	Prep	PrecSep_0			284709	12/20/16 10:37	AS	TAL SL
Total/NA	Analysis	9320		1	288247	01/19/17 14:29	RTM	TAL SL
Total/NA	Analysis	Ra226_Ra228		1	289034	01/24/17 09:40	RTM	TAL SL

Laboratory References:

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

QC Association Summary

Client: Southern Company
Project/Site: CCR Plant Scherer

TestAmerica Job ID: 400-131380-2
SDG: Ash Pond

Rad

Prep Batch: 284690

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-131380-1	SGWC-20	Total/NA	Water	PrecSep-21	
400-131380-2	SGWC-19	Total/NA	Water	PrecSep-21	
400-131380-3	EB-1 (AP)	Total/NA	Water	PrecSep-21	
400-131380-4	EB-2 (AP)	Total/NA	Water	PrecSep-21	
400-131380-5	EB-3 (AP)	Total/NA	Water	PrecSep-21	
MB 160-284690/1-A	Method Blank	Total/NA	Water	PrecSep-21	
LCS 160-284690/2-A	Lab Control Sample	Total/NA	Water	PrecSep-21	
440-168970-AD-6-A MS	Matrix Spike	Total/NA	Water	PrecSep-21	
440-168970-AG-6-B MSD	Matrix Spike Duplicate	Total/NA	Water	PrecSep-21	
490-117844-D-1-B MS	Matrix Spike	Total/NA	Water	PrecSep-21	
490-117844-E-1-A MSD	Matrix Spike Duplicate	Total/NA	Water	PrecSep-21	

Prep Batch: 284709

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-131380-1	SGWC-20	Total/NA	Water	PrecSep_0	
400-131380-2	SGWC-19	Total/NA	Water	PrecSep_0	
400-131380-3	EB-1 (AP)	Total/NA	Water	PrecSep_0	
400-131380-4	EB-2 (AP)	Total/NA	Water	PrecSep_0	
400-131380-5	EB-3 (AP)	Total/NA	Water	PrecSep_0	
MB 160-284709/1-A	Method Blank	Total/NA	Water	PrecSep_0	
LCS 160-284709/2-A	Lab Control Sample	Total/NA	Water	PrecSep_0	
440-168970-AD-6-B MS	Matrix Spike	Total/NA	Water	PrecSep_0	
440-168970-AG-6-C MSD	Matrix Spike Duplicate	Total/NA	Water	PrecSep_0	
490-117844-D-1-D MS	Matrix Spike	Total/NA	Water	PrecSep_0	
490-117844-E-1-B MSD	Matrix Spike Duplicate	Total/NA	Water	PrecSep_0	

QC Sample Results

Client: Southern Company
Project/Site: CCR Plant Scherer

TestAmerica Job ID: 400-131380-2
SDG: Ash Pond

Method: 9315 - Radium-226 (GFPC)

Lab Sample ID: MB 160-284690/1-A
Matrix: Water
Analysis Batch: 288247

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 284690

Analyte	MB MB		Count	Total	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
	Result	Qualifier	Uncert. (2σ+/-)	Uncert. (2σ+/-)						
Radium-226	0.1692	U	0.250	0.251	1.00	0.429	pCi/L	12/20/16 09:20	01/19/17 17:24	1
Carrier	MB MB		Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	74.6		40 - 110					12/20/16 09:20	01/19/17 17:24	1

Lab Sample ID: LCS 160-284690/2-A
Matrix: Water
Analysis Batch: 288510

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 284690

Analyte	Spike Added	LCS Result	LCS Qual	Total	RL	MDC	Unit	%Rec	%Rec. Limits
				Uncert. (2σ+/-)					
Radium-226	11.1	14.01		1.67	1.00	0.292	pCi/L	126	68 - 137
Carrier	LCS LCS		Limits						
Ba Carrier	82.9		40 - 110						

Lab Sample ID: 440-168970-AD-6-A MS
Matrix: Water
Analysis Batch: 288248

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 284690

Analyte	Sample Sample		Spike Added	MS	MS	Total	RL	MDC	Unit	%Rec	%Rec. Limits
	Result	Qual		Result	Qual	Uncert. (2σ+/-)					
Radium-226	0.177	U	11.1	13.73		1.74	1.00	0.434	pCi/L	124	75 - 138
Carrier	MS MS		Limits								
Ba Carrier	80.6		40 - 110								

Lab Sample ID: 440-168970-AG-6-B MSD
Matrix: Water
Analysis Batch: 288510

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA
Prep Batch: 284690

Analyte	Sample Sample		Spike Added	MSD	MSD	Total	RL	MDC	Unit	%Rec	%Rec. Limits	RER	RER Limit
	Result	Qual		Result	Qual	Uncert. (2σ+/-)							
Radium-226	0.177	U	11.1	15.09		1.76	1.00	0.327	pCi/L	136	75 - 138	0.39	1
Carrier	MSD MSD		Limits										
Ba Carrier	85.5		40 - 110										

Lab Sample ID: 490-117844-D-1-B MS
Matrix: Water
Analysis Batch: 288249

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 284690

Analyte	Sample Sample		Spike Added	MS	MS	Total	RL	MDC	Unit	%Rec	%Rec. Limits
	Result	Qual		Result	Qual	Uncert. (2σ+/-)					
Radium-226	0.116	U	11.1	14.79		1.86	1.00	0.446	pCi/L	133	75 - 138

TestAmerica Pensacola

QC Sample Results

Client: Southern Company
Project/Site: CCR Plant Scherer

TestAmerica Job ID: 400-131380-2
SDG: Ash Pond

Method: 9315 - Radium-226 (GFPC) (Continued)

Lab Sample ID: 490-117844-D-1-B MS
Matrix: Water
Analysis Batch: 288249

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 284690

Carrier	MS %Yield	MS Qualifier	Limits
Ba Carrier	78.6		40 - 110

Lab Sample ID: 490-117844-E-1-A MSD
Matrix: Water
Analysis Batch: 288248

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA
Prep Batch: 284690

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	0.116	U	11.1	15.17		1.86	1.00	0.422	pCi/L	137	75 - 138	0.10	1

Carrier	MSD %Yield	MSD Qualifier	Limits
Ba Carrier	76.9		40 - 110

Method: 9320 - Radium-228 (GFPC)

Lab Sample ID: MB 160-284709/1-A
Matrix: Water
Analysis Batch: 288247

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 284709

Analyte	MB Result	MB Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.3074	U	0.290	0.291	1.00	0.468	pCi/L	12/20/16 10:37	01/19/17 14:28	1

Carrier	MB %Yield	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
Ba Carrier	74.6		40 - 110	12/20/16 10:37	01/19/17 14:28	1
Y Carrier	95.0		40 - 110	12/20/16 10:37	01/19/17 14:28	1

Lab Sample ID: LCS 160-284709/2-A
Matrix: Water
Analysis Batch: 288247

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 284709

Analyte	Spike Added	LCS Result	LCS Qual	Total Uncert. (2σ+/-)	RL	MDC	Unit	%Rec	%Rec. Limits
Radium-228	14.0	13.78		1.51	1.00	0.395	pCi/L	99	56 - 140

Carrier	LCS %Yield	LCS Qualifier	Limits
Ba Carrier	82.9		40 - 110
Y Carrier	96.8		40 - 110

Lab Sample ID: 440-168970-AD-6-B MS
Matrix: Water
Analysis Batch: 288249

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 284709

Analyte	Sample Result	Sample Qual	Spike Added	MS Result	MS Qual	Total Uncert. (2σ+/-)	RL	MDC	Unit	%Rec	%Rec. Limits
Radium-228	0.919		14.0	15.48		1.68	1.00	0.480	pCi/L	104	45 - 150

TestAmerica Pensacola

QC Sample Results

Client: Southern Company
Project/Site: CCR Plant Scherer

TestAmerica Job ID: 400-131380-2
SDG: Ash Pond

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

Lab Sample ID: 440-168970-AD-6-B MS
Matrix: Water
Analysis Batch: 288249

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 284709

Carrier	<i>MS</i> %Yield	<i>MS</i> Qualifier	Limits
Ba Carrier	80.6		40 - 110
Y Carrier	95.3		40 - 110

Lab Sample ID: 440-168970-AG-6-C MSD
Matrix: Water
Analysis Batch: 288249

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA
Prep Batch: 284709

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	0.919		14.0	16.36		1.76	1.00	0.499	pCi/L	111	45 - 150	0.26	1

Carrier	<i>MSD</i> %Yield	<i>MSD</i> Qualifier	Limits
Ba Carrier	85.5		40 - 110
Y Carrier	92.0		40 - 110

Lab Sample ID: 490-117844-D-1-D MS
Matrix: Water
Analysis Batch: 288247

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 284709

Analyte	Sample Result	Sample Qual	Spike Added	MS Result	MS Qual	Total Uncert. (2σ+/-)	RL	MDC	Unit	%Rec	%Rec. Limits	RER	RER Limit
Radium-228	0.605		14.0	15.08		1.64	1.00	0.381	pCi/L	104	45 - 150		

Carrier	<i>MS</i> %Yield	<i>MS</i> Qualifier	Limits
Ba Carrier	78.6		40 - 110
Y Carrier	95.3		40 - 110

Lab Sample ID: 490-117844-E-1-B MSD
Matrix: Water
Analysis Batch: 288247

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA
Prep Batch: 284709

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	0.605		14.0	15.48		1.69	1.00	0.440	pCi/L	106	45 - 150	0.12	1

Carrier	<i>MSD</i> %Yield	<i>MSD</i> Qualifier	Limits
Ba Carrier	76.9		40 - 110
Y Carrier	92.7		40 - 110

QC Sample Results

Client: Southern Company
 Project/Site: CCR Plant Scherer

TestAmerica Job ID: 400-131380-2
 SDG: Ash Pond

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

Lab Sample ID: 400-131190-A-5 DU
 Matrix: Water
 Analysis Batch: 289034

Client Sample ID: Duplicate
 Prep Type: Total/NA


Analyte	Sample Result	Sample Qual	DU Result	DU Qual	Total Uncert. (2σ+/-)	RL	MDC	Unit	RER	RER Limit
Combined Radium 226 + 228	0.346	U	0.4269		0.300	5.00	0.366	pCi/L	0.13	

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TestAmerica Pensacola
 3355 McLeMORE Drive
 Pensacola, FL 32514
 Phone (850) 474-1001 Fax (850) 478-2671

Chain of Custody Record

TestAmerica
 THE LEADER IN ENVIRONMENTAL TESTING

Client Information Client Contact: Jolu Abraham Company: Southern Company Address: 241 Ralph McGill Blvd SE B10185 City: Atlanta State, Zip: GA, 30308 Phone: [blank] Email: JAbraham@southernco.com Project Name: CCR - Scherer Site: Ash Pond		Lab Pk: Whitmire, Cheyenne R E-Mail: cheyenne.whitmire@testamericainc.com Due Date Requested: [blank] TAT Requested (days): [blank] PO #: GPC10624814 WO #: [blank] Project #: 40007041 SSSOW#: [blank]		Sampler: Ben Hodges Phone: 912-258-7457 Center Tracking No(s): [blank]		COC No: 400-57303-24790.8 Page: Page 8 of 8 Job #: 400-131380	
Analysis Requested 2540C-TDS, 300_ORGM_28D-Chloride, Fluoride, Sulfate 6020-Sp, As, Ba, B, Be, Ca, Cd, Cr, Co, Pb, Li, Mo, Se, Ti, 7470A-Hg 9316_Fa226, 9320_Fa228, Fa226Ra228, GPPC		 400-131380 COC		Preservation Codes: M - Hexane N - None O - AsNaO2 P - Na2CO3 Q - Na2SO3 R - Na2S2O3 S - H2SO4 T - TSP Dodecahydrate U - Acetone V - MCAA W - ph 4-5 Z - other (specify) Other: [blank]		Special Instructions/Note: Total Number of containers: 3	
Sample Identification Sample Date: 12/8/16 Sample Time: 1005 Sample Type (C=Comp, G=grab): G Preservation Code: Water Matrix (W=water, S=solid, O=waterfall, BT=Tissue, A=air)		Field Filtered Sample (Yes or No) [X] ID: 1 ID: 1 ID: 1 ID: 1 ID: 1		Sample Disposal (A fee may be assessed if samples are retained longer than 1 month) <input checked="" type="checkbox"/> Return To Client <input type="checkbox"/> Disposal By Lab <input type="checkbox"/> Archive For [blank] Months		Special Instructions/QC Requirements: Please send a copy of report to Heath McCorkle and Maria Padilla	
Possible Hazard Identification <input checked="" type="checkbox"/> Non-Hazard <input type="checkbox"/> Flammable <input type="checkbox"/> Skin Irritant <input type="checkbox"/> Poison B <input type="checkbox"/> Unknown <input type="checkbox"/> Radiological		Date: 12/8/16 1430 Date/Time: [blank]		Date/Time: [blank]		Date/Time: [blank]	
Empty Kit Relinquished by: [Signature] Relinquished by: [Signature] Relinquished by: [Signature] Relinquished by: [Signature]		Date: 12/8/16 9:11 Date/Time: [blank]		Date/Time: [blank]		Date/Time: [blank]	
Custody Seals Intact: <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No Custody Seal No.: 412, 9.0, 126		Cooler Temperature(s) °C and Other Remarks: 4.1°C, 9.0°C, 12.6°C		Cooler Temperature(s) °C and Other Remarks: [blank]		Cooler Temperature(s) °C and Other Remarks: [blank]	

Login Sample Receipt Checklist

Client: Southern Company

Job Number: 400-131380-2

SDG Number: Ash Pond

Login Number: 131380

List Number: 1

Creator: Siddoway, Benjamin

List Source: TestAmerica Pensacola

Question	Answer	Comment
Radioactivity wasn't checked or is \leq background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	N/A	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	4.1°C, 4.0°C IR-6
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 <math><6\text{mm}</math> (1/4").	N/A	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	



Certification Summary

Client: Southern Company
Project/Site: CCR Plant Scherer

TestAmerica Job ID: 400-131380-2
SDG: Ash Pond

Laboratory: TestAmerica Pensacola

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

Authority	Program	EPA Region	Certification ID	Expiration Date
Alabama	State Program	4	40150	06-30-17
Arizona	State Program	9	AZ0710	01-11-18
Arkansas DEQ	State Program	6	88-0689	09-01-17
California	ELAP	9	2510	03-31-18
Florida	NELAP	4	E81010	06-30-17
Georgia	State Program	4	N/A	06-30-17
Illinois	NELAP	5	200041	10-09-17
Iowa	State Program	7	367	08-01-18
Kansas	NELAP	7	E-10253	10-31-17
Kentucky (UST)	State Program	4	53	06-30-17
Kentucky (WW)	State Program	4	98030	12-31-17
Louisiana	NELAP	6	30976	06-30-17
Louisiana (DW)	NELAP Secondary AB	6	LA170005	12-31-17
Maryland	State Program	3	233	09-30-17
Massachusetts	State Program	1	M-FL094	06-30-17
Michigan	State Program	5	9912	05-06-17
New Jersey	NELAP	2	FL006	06-30-17
North Carolina (WW/SW)	State Program	4	314	12-31-17
Oklahoma	State Program	6	9810	08-31-17
Pennsylvania	NELAP	3	68-00467	01-31-18
Rhode Island	State Program	1	LAO00307	12-30-16 *
South Carolina	State Program	4	96026	06-30-17
Tennessee	State Program	4	TN02907	06-30-17
Texas	NELAP	6	T104704286-16-10	09-30-17
USDA	Federal		P330-16-00172	05-24-19
Virginia	NELAP	3	460166	06-14-17
Washington	State Program	10	C915	05-15-17
West Virginia DEP	State Program	3	136	06-30-17

Laboratory: TestAmerica St. Louis

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

Authority	Program	EPA Region	Certification ID	Expiration Date
Alaska	State Program	10	MO00054	06-30-17
California	State Program	9	2886	03-31-18 *
Connecticut	State Program	1	PH-0241	03-31-17 *
Florida	NELAP	4	E87689	06-30-17
Illinois	NELAP	5	200023	11-30-17
Iowa	State Program	7	373	12-01-16 *
Kansas	NELAP	7	E-10236	10-31-17
Kentucky (DW)	State Program	4	90125	12-31-17
L-A-B	DoD ELAP		L2305	04-06-19
Louisiana	NELAP	6	04080	06-30-17
Louisiana (DW)	NELAP	6	LA170011	12-31-17
Maryland	State Program	3	310	09-30-17
Missouri	State Program	7	780	06-30-17
Nevada	State Program	9	MO000542017-1	07-31-17
New Jersey	NELAP	2	MO002	06-30-17
New York	NELAP	2	11616	03-31-17 *
North Dakota	State Program	8	R207	06-30-17

* Certification renewal pending - certification considered valid.

Certification Summary

Client: Southern Company
Project/Site: CCR Plant Scherer

TestAmerica Job ID: 400-131380-2
SDG: Ash Pond

Laboratory: TestAmerica St. Louis (Continued)

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

Authority	Program	EPA Region	Certification ID	Expiration Date
NRC	NRC		24-24817-01	12-31-22
Oklahoma	State Program	6	9997	08-31-17
Pennsylvania	NELAP	3	68-00540	02-28-17 *
South Carolina	State Program	4	85002001	06-30-17
Texas	NELAP	6	T104704193-16-10	07-31-17
US Fish & Wildlife	Federal		LE058448-0	10-31-17
USDA	Federal		P330-14-0016	01-09-17 *
Utah	NELAP	8	MO000542016-8	07-31-17
Virginia	NELAP	3	460230	06-14-17
Washington	State Program	10	C592	08-30-17
West Virginia DEP	State Program	3	381	08-31-17 *

* Certification renewal pending - certification considered valid.

TestAmerica Pensacola

Product Name: Low-Flow System

Date: 2016-12-06 10:54:15

Project Information:

Operator Name AME
Company Name Golder
Project Name Scherer GW Dec 2016
Site Name Scherer
Latitude 0° 0' 0"
Longitude 0° 0' 0"
Sonde SN 465016
Turbidity Make/Model LaMotte 2020

Pump Information:

Pump Model/Type MP-50
Tubing Type
Tubing Diameter in
Tubing Length ft
Pump placement from TOC 44.60 ft

Well Information:

Well ID SGWA-1
Well diameter 2 in
Well Total Depth 53.40 ft
Screen Length 10 ft
Depth to Water 42.65 ft

Pumping Information:

Final Pumping Rate 100 mL/min
Total System Volume 0.09 L
Calculated Sample Rate 300 sec
Stabilization Drawdown 4 in
Total Volume Pumped 6 L

Low-Flow Sampling Stabilization Summary

	Time	Elapsed	Temp C	pH	SpCond μ S/cm	Turb NTU	DTW ft	RDO mg/L	ORP mV
Stabilization			+/- 0.5	+/- 0.1	+/- 3%	+/- 10		+/- 0.3	+/- 10
Last 5	10:30:45	2400.02	16.95	5.29	46.33	4.34	42.85	0.33	44.21
Last 5	10:35:45	2700.02	17.02	5.32	46.29	5.55	42.85	0.32	43.04
Last 5	10:40:45	3000.02	17.10	5.30	46.54	4.32	42.85	0.32	43.48
Last 5	10:45:45	3300.02	17.18	5.31	46.54	2.34	42.85	0.32	44.10
Last 5	10:50:45	3599.94	17.18	5.33	46.45	0.85	42.85	0.32	42.59
Variance 0			0.08	-0.01	0.24			-0.01	0.44
Variance 1			0.08	0.00	0.00			-0.00	0.63
Variance 2			-0.00	0.02	-0.09			-0.00	-1.52

Notes

SGWA-1 @1053

Grab Samples

Product Name: Low-Flow System

Date: 2016-12-06 12:11:19

Project Information:

Operator Name AME
Company Name Golder
Project Name Scherer GW Dec 2016
Site Name Scherer
Latitude 0° 0' 0"
Longitude 0° 0' 0"
Sonde SN 465016
Turbidity Make/Model LaMotte 2020

Pump Information:

Pump Model/Type MP-50
Tubing Type
Tubing Diameter in
Tubing Length 91.05 ft

Pump placement from TOC 91.05 ft

Well Information:

Well ID SGWA-2
Well diameter 2 in
Well Total Depth 98.50 ft
Screen Length 10 ft
Depth to Water 42.90 ft

Pumping Information:

Final Pumping Rate 150 mL/min
Total System Volume 0.485 L
Calculated Sample Rate 300 sec
Stabilization Drawdown 1.3 in
Total Volume Pumped 4.5 L

Low-Flow Sampling Stabilization Summary

	Time	Elapsed	Temp C	pH	SpCond μ S/cm	Turb NTU	DTW ft	RDO mg/L	ORP mV
Stabilization			+/- 0.5	+/- 0.1	+/- 3%	+/- 10		+/- 0.3	+/- 10
Last 5	11:48:39	300.03	17.91	6.73	106.25	0.58	44.20	1.49	48.13
Last 5	11:53:39	600.02	17.75	6.73	105.81	1.73	44.20	1.11	48.99
Last 5	11:58:39	900.02	17.79	6.76	105.60	0.68	44.20	1.01	47.83
Last 5	12:03:39	1200.02	18.00	6.76	105.94	1.30	44.20	0.75	48.45
Last 5	12:08:39	1500.02	17.99	6.74	105.29	1.86	44.20	0.83	48.89
Variance 0			0.03	0.03	-0.21			-0.10	-1.16
Variance 1			0.21	-0.00	0.34			-0.25	0.61
Variance 2			-0.01	-0.02	-0.64			0.08	0.44

Notes

SGWA-2@1209

Grab Samples

Product Name: Low-Flow System

Date: 2016-12-06 13:07:30

Project Information:

Operator Name BH
Company Name Golder
Project Name Scherer
Site Name Scherer
Latitude 0° 0' 0"
Longitude 0° 0' 0"
Sonde SN 364455
Turbidity Make/Model LaMotte

Pump Information:

Pump Model/Type QED
Tubing Type polyethylene
Tubing Diameter .17 in
Tubing Length 44.7 ft

Pump placement from TOC 44.7 ft

Well Information:

Well ID SGWA-3
Well diameter 2 in
Well Total Depth 52.8 ft
Screen Length 10 ft
Depth to Water 35.75 ft

Pumping Information:

Final Pumping Rate 100 mL/min
Total System Volume 0.684515 L
Calculated Sample Rate 300 sec
Stabilization Drawdown 32.4 in
Total Volume Pumped 3 L

Low-Flow Sampling Stabilization Summary

	Time	Elapsed	Temp C	pH	SpCond μ S/cm	Turb NTU	DTW ft	RDO mg/L	ORP mV
Stabilization			+/- 0	+/- 0.1	+/- 5%	+/- 10		+/- 10%	+/- 10
Last 5	12:45:28	600.02	18.41	5.76	70.36	0.51	37.40	2.36	95.08
Last 5	12:50:28	900.02	18.59	5.72	69.57	0.49	37.92	1.40	90.24
Last 5	12:55:28	1200.02	18.61	5.69	69.29	0.57	38.20	1.20	85.66
Last 5	13:00:28	1500.02	18.83	5.68	69.71	0.52	38.33	1.25	81.98
Last 5	13:05:28	1800.02	18.68	5.68	70.28	0.46	38.45	1.40	78.48
Variance 0			0.02	-0.02	-0.28			-0.20	-4.58
Variance 1			0.22	-0.01	0.42			0.05	-3.68
Variance 2			-0.16	0.00	0.57			0.15	-3.50

Notes

Sampled at 1310

Grab Samples

Product Name: Low-Flow System

Date: 2016-12-06 14:26:43

Project Information:

Operator Name BH
Company Name Golder
Project Name Scherer
Site Name Scherer
Latitude 0° 0' 0"
Longitude 0° 0' 0"
Sonde SN 364455
Turbidity Make/Model LaMotte

Pump Information:

Pump Model/Type QED
Tubing Type polyethylene
Tubing Diameter .17 in
Tubing Length 54.80 ft

Pump placement from TOC 54.80 ft

Well Information:

Well ID SGWA-4
Well diameter 2 in
Well Total Depth 63.2 ft
Screen Length 10 ft
Depth to Water 48.32 ft

Pumping Information:

Final Pumping Rate 100 mL/min
Total System Volume 0.7295956 L
Calculated Sample Rate 300 sec
Stabilization Drawdown 19.2 in
Total Volume Pumped 3 L

Low-Flow Sampling Stabilization Summary

	Time	Elapsed	Temp C	pH	SpCond μ S/cm	Turb NTU	DTW ft	RDO mg/L	ORP mV
Stabilization			+/- 0	+/- 0.1	+/- 5%	+/- 10		+/- 10%	+/- 10
Last 5	14:05:07	600.02	18.75	6.58	146.57	0.38	49.44	4.82	68.82
Last 5	14:10:07	900.02	18.68	6.52	142.71	0.46	49.69	3.56	68.83
Last 5	14:15:07	1200.02	18.59	6.49	141.03	0.53	49.82	3.02	62.09
Last 5	14:20:07	1500.02	18.42	6.48	141.85	0.56	49.89	2.93	55.91
Last 5	14:25:07	1800.02	18.30	6.48	143.32	0.53	49.92	3.01	51.88
Variance 0			-0.09	-0.03	-1.68			-0.54	-6.74
Variance 1			-0.17	-0.01	0.82			-0.09	-6.18
Variance 2			-0.12	-0.00	1.47			0.08	-4.03

Notes

Sampled at 1425

Grab Samples

Product Name: Low-Flow System

Date: 2016-12-06 10:31:41

Project Information:

Operator Name BH
Company Name Golder
Project Name Scherer
Site Name Scherer
Latitude 0° 0' 0"
Longitude 0° 0' 0"
Sonde SN 364455
Turbidity Make/Model LaMotte

Pump Information:

Pump Model/Type QED
Tubing Type polyethylene
Tubing Diameter .17 in
Tubing Length 24.36 ft

Pump placement from TOC 24.36 ft

Well Information:

Well ID SGWA-5
Well diameter 2 in
Well Total Depth 33.1 ft
Screen Length 10 ft
Depth to Water 18.30 ft

Pumping Information:

Final Pumping Rate 150 mL/min
Total System Volume 0.593729 L
Calculated Sample Rate 300 sec
Stabilization Drawdown 10.68 in
Total Volume Pumped 3.75 L

Low-Flow Sampling Stabilization Summary

	Time	Elapsed	Temp C	pH	SpCond μ S/cm	Turb NTU	DTW ft	RDO mg/L	ORP mV
Stabilization			+/- 0	+/- 0.1	+/- 5%	+/- 10		+/- 10%	+/- 10
Last 5	10:09:14	300.05	17.50	5.65	45.78	2.38	18.93	3.21	65.60
Last 5	10:14:14	600.02	17.50	5.53	45.69	1.08	18.95	2.71	66.96
Last 5	10:19:14	900.02	17.58	5.51	45.62	0.57	19.17	2.54	69.60
Last 5	10:24:14	1200.06	17.54	5.48	45.65	0.45	19.19	2.51	72.24
Last 5	10:29:14	1500.06	17.52	5.46	45.53	0.30	19.19	2.61	74.40
Variance 0			0.08	-0.02	-0.08			-0.17	2.64
Variance 1			-0.04	-0.03	0.03			-0.03	2.64
Variance 2			-0.02	-0.03	-0.12			0.10	2.16

Notes

Sampled at 1030/FD-2(AP)/extra rad

Grab Samples

Product Name: Low-Flow System

Date: 2016-12-06 16:21:08

Project Information:

Operator Name DC
Company Name Golder
Project Name Plant Scherer
Site Name Plant Scherer
Latitude 0° 0' 0"
Longitude 0° 0' 0"
Sonde SN 449622
Turbidity Make/Model LaMotte

Pump Information:

Pump Model/Type QED ST1102PM
Tubing Type Bonded
Tubing Diameter 0.17 in
Tubing Length 19.21 ft

Pump placement from TOC 19.21 ft

Well Information:

Well ID SGWC-6
Well diameter 2 in
Well Total Depth 27.6 ft
Screen Length 10 ft
Depth to Water 15.88 ft

Pumping Information:

Final Pumping Rate 100 mL/min
Total System Volume 0.5707424 L
Calculated Sample Rate 300 sec
Stabilization Drawdown 18 in
Total Volume Pumped 3 L

Low-Flow Sampling Stabilization Summary

	Time	Elapsed	Temp C	pH	SpCond μ S/cm	Turb NTU	DTW ft	RDO mg/L	ORP mV
Stabilization			+/- 0.5	+/- 0.1	+/- 5%	+/- 10		+/- 10%	+/- 10
Last 5	15:58:06	600.02	18.88	6.34	105.94	0.46	16.91	1.76	39.39
Last 5	16:03:06	900.02	18.82	6.30	106.08	0.41	17.14	1.04	40.07
Last 5	16:08:06	1200.02	18.70	6.29	106.19	0.36	17.24	0.62	39.09
Last 5	16:13:06	1500.02	18.72	6.30	106.32	0.44	17.31	0.53	38.41
Last 5	16:18:06	1800.02	18.75	6.30	106.31	0.59	17.35	0.49	37.93
Variance 0			-0.12	-0.01	0.11			-0.43	-0.98
Variance 1			0.02	0.00	0.13			-0.09	-0.68
Variance 2			0.03	0.00	-0.02			-0.04	-0.49

Notes

SGWC-6 sampled @ 1618, 0.59 NTU.

Grab Samples

Product Name: Low-Flow System

Date: 2016-12-06 12:04:40

Project Information:

Operator Name DC
Company Name Golder
Project Name Plant Scherer
Site Name Plant Scherer
Latitude 0° 0' 0"
Longitude 0° 0' 0"
Sonde SN 449622
Turbidity Make/Model LaMotte

Pump Information:

Pump Model/Type QED ST1102PM
Tubing Type Bonded
Tubing Diameter 0.17 in
Tubing Length 29.75 ft

Pump placement from TOC 29.75 ft

Well Information:

Well ID SGWC-7
Well diameter 2 in
Well Total Depth 37.70 ft
Screen Length 10 ft
Depth to Water 14.77 ft

Pumping Information:

Final Pumping Rate 150 mL/min
Total System Volume 0.6177869 L
Calculated Sample Rate 300 sec
Stabilization Drawdown 2 in
Total Volume Pumped 3.8 L

Low-Flow Sampling Stabilization Summary

	Time	Elapsed	Temp C	pH	SpCond μ S/cm	Turb NTU	DTW ft	RDO mg/L	ORP mV
Stabilization			+/- 0.5	+/- 0.1	+/- 5%	+/- 10		+/- 10%	+/- 10
Last 5	11:41:00	300.09	17.93	6.48	351.28	2.20	14.83	2.35	15.46
Last 5	11:46:00	600.03	18.26	6.47	342.37	1.83	14.86	1.05	10.89
Last 5	11:51:00	900.02	18.39	6.48	331.20	1.33	14.89	0.62	8.52
Last 5	11:56:00	1200.03	18.35	6.49	329.03	0.95	14.90	0.31	5.30
Last 5	12:01:01	1501.03	18.34	6.51	323.66	0.69	14.91	0.24	1.64
Variance 0			0.14	0.01	-11.17			-0.43	-2.37
Variance 1			-0.05	0.01	-2.17			-0.31	-3.22
Variance 2			-0.01	0.02	-5.37			-0.08	-3.66

Notes

SGWC-7 sampled @ 1201, 0.69 NTU.

Grab Samples

Product Name: Low-Flow System

Date: 2016-12-06 13:10:47

Project Information:

Operator Name DC
Company Name Golder
Project Name Plant Scherer
Site Name Plant Scherer
Latitude 0° 0' 0"
Longitude 0° 0' 0"
Sonde SN 449622
Turbidity Make/Model LaMotte

Pump Information:

Pump Model/Type QED ST1102PM
Tubing Type Bonded
Tubing Diameter 0.17 in
Tubing Length 34.2 ft

Pump placement from TOC 34.2 ft

Well Information:

Well ID SGWC-8
Well diameter 2 in
Well Total Depth 42.6 ft
Screen Length 10 ft
Depth to Water 22.61 ft

Pumping Information:

Final Pumping Rate 150 mL/min
Total System Volume 0.6376491 L
Calculated Sample Rate 300 sec
Stabilization Drawdown 2 in
Total Volume Pumped 3.8 L

Low-Flow Sampling Stabilization Summary

	Time	Elapsed	Temp C	pH	SpCond μ S/cm	Turb NTU	DTW ft	RDO mg/L	ORP mV
Stabilization			+/- 0.5	+/- 0.1	+/- 5%	+/- 10		+/- 10%	+/- 10
Last 5	12:47:31	299.97	18.48	6.64	528.79	0.63	22.71	2.98	-6.19
Last 5	12:52:30	599.90	18.53	6.53	527.19	0.44	22.74	2.29	-4.62
Last 5	12:57:30	899.90	18.63	6.50	526.04	0.78	22.74	1.93	-2.79
Last 5	13:02:30	1199.90	18.52	6.48	526.45	0.42	22.75	1.85	-0.45
Last 5	13:07:30	1499.90	18.84	6.48	523.82	--	--	1.81	1.27
Variance 0			0.11	-0.03	-1.15			-0.35	1.84
Variance 1			-0.11	-0.02	0.41			-0.08	2.34
Variance 2			0.31	-0.01	-2.63			-0.04	1.72

Notes

SGWC-8 sampled @ 1307, 0.62 NTU. Final DTW = 22.75

Grab Samples

Product Name: Low-Flow System

Date: 2016-12-07 15:20:19

Project Information:

Operator Name DC
Company Name Golder
Project Name Plant Scherer
Site Name Plant Scherer
Latitude 0° 0' 0"
Longitude 0° 0' 0"
Sonde SN 449622
Turbidity Make/Model LaMotte

Pump Information:

Pump Model/Type QED ST1102PM
Tubing Type Bonded
Tubing Diameter 0.17 in
Tubing Length 29.4 ft

Pump placement from TOC 29.4 ft

Well Information:

Well ID SGWC-9
Well diameter 2 in
Well Total Depth 37.8 ft
Screen Length 10 ft
Depth to Water 21.35 ft

Pumping Information:

Final Pumping Rate 100 mL/min
Total System Volume 0.6162246 L
Calculated Sample Rate 300 sec
Stabilization Drawdown 3.5 in
Total Volume Pumped 4 L

Low-Flow Sampling Stabilization Summary

	Time	Elapsed	Temp C	pH	SpCond μ S/cm	Turb NTU	DTW ft	RDO mg/L	ORP mV
Stabilization			+/- 0.5	+/- 0.1	+/- 5%	+/- 10		+/- 10%	+/- 10
Last 5	14:56:14	1199.84	18.36	6.03	609.23	1.20	21.74	0.88	50.75
Last 5	15:01:15	1500.84	18.12	6.07	609.94	1.17	21.74	0.68	49.31
Last 5	15:06:15	1800.84	18.21	6.09	609.13	1.19	21.74	0.55	47.76
Last 5	15:11:15	2100.84	18.08	6.12	609.96	1.15	21.74	0.47	46.35
Last 5	15:16:15	2400.84	17.98	6.14	609.88	0.97	21.74	0.42	44.63
Variance 0			0.08	0.03	-0.80			-0.13	-1.56
Variance 1			-0.13	0.02	0.83			-0.08	-1.41
Variance 2			-0.10	0.02	-0.08			-0.05	-1.72

Notes

SGWC-9 sampled @ 1516, 0.97 NTU.

Grab Samples

Product Name: Low-Flow System

Date: 2016-12-06 15:09:11

Project Information:

Operator Name DC
Company Name Golder
Project Name Plant Scherer
Site Name Plant Scherer
Latitude 0° 0' 0"
Longitude 0° 0' 0"
Sonde SN 449622
Turbidity Make/Model LaMotte

Pump Information:

Pump Model/Type QED ST1102PM
Tubing Type Bonded
Tubing Diameter 0.17 in
Tubing Length 24.2 ft

Pump placement from TOC 24.2 ft

Well Information:

Well ID SGWC-10
Well diameter 2 in
Well Total Depth 32.6 ft
Screen Length 10 ft
Depth to Water 17.93 ft

Pumping Information:

Final Pumping Rate 150 mL/min
Total System Volume 0.5930148 L
Calculated Sample Rate 300 sec
Stabilization Drawdown 16 in
Total Volume Pumped 10 L

Low-Flow Sampling Stabilization Summary

	Time	Elapsed	Temp C	pH	SpCond μ S/cm	Turb NTU	DTW ft	RDO mg/L	ORP mV
Stabilization			+/- 0.5	+/- 0.1	+/- 5%	+/- 10		+/- 10%	+/- 10
Last 5	14:41:11	3601.95	18.37	5.46	96.95	0.58	19.22	0.95	8.29
Last 5	14:46:11	3901.95	18.45	5.44	100.82	0.77	19.23	1.19	10.07
Last 5	14:51:11	4201.95	18.48	5.49	101.75	0.70	19.23	0.36	8.99
Last 5	14:56:11	4501.95	18.53	5.49	102.59	0.56	19.23	0.30	10.23
Last 5	15:01:11	4801.95	18.57	5.49	103.53	0.49	19.23	0.28	11.14
Variance 0			0.03	0.05	0.93			-0.83	-1.08
Variance 1			0.04	-0.00	0.84			-0.06	1.24
Variance 2			0.05	0.00	0.94			-0.02	0.91

Notes

SGWC-10 sampled @ 1501, 0.49 NTU.

Grab Samples

Product Name: Low-Flow System

Date: 2016-12-06 14:23:27

Project Information:

Operator Name AME
Company Name Golder
Project Name Scherer GW Dec 2016
Site Name Scherer
Latitude 0° 0' 0"
Longitude 0° 0' 0"
Sonde SN 465016
Turbidity Make/Model LaMotte 2020

Pump Information:

Pump Model/Type MP-50
Tubing Type
Tubing Diameter in
Tubing Length 34.3 ft

Pump placement from TOC 34.3 ft

Well Information:

Well ID SGWC-11
Well diameter 2 in
Well Total Depth 42.7 ft
Screen Length 10 ft
Depth to Water 19.22 ft

Pumping Information:

Final Pumping Rate 150 mL/min
Total System Volume 0.485 L
Calculated Sample Rate 300 sec
Stabilization Drawdown 26.5 in
Total Volume Pumped 5.25 L

Low-Flow Sampling Stabilization Summary

	Time	Elapsed	Temp C	pH	SpCond μ S/cm	Turb NTU	DTW ft	RDO mg/L	ORP mV
Stabilization			+/- 0.5	+/- 0.1	+/- 3%	+/- 10		+/- 0.3	+/- 10
Last 5	14:02:16	900.02	19.19	5.62	90.58	2.87	21.43	1.27	38.48
Last 5	14:07:16	1200.02	19.61	5.61	88.12	1.74	21.43	1.42	37.25
Last 5	14:12:16	1500.02	19.26	5.57	85.36	1.41	21.43	1.24	37.38
Last 5	14:17:17	1800.37	19.23	5.55	83.86	1.21	21.43	1.17	38.89
Last 5	14:22:17	2100.37	18.96	5.58	83.51	1.32	21.43	1.08	36.37
Variance 0			-0.35	-0.04	-2.76			-0.18	0.13
Variance 1			-0.03	-0.03	-1.50			-0.07	1.51
Variance 2			-0.27	0.03	-0.35			-0.09	-2.51

Notes

SGWC-11@1423

Grab Samples

Product Name: Low-Flow System

Date: 2016-12-06 15:11:21

Project Information:

Operator Name AME
Company Name Golder
Project Name Scherer GW Dec 2016
Site Name Scherer
Latitude 0° 0' 0"
Longitude 0° 0' 0"
Sonde SN 465016
Turbidity Make/Model LaMotte 2020

Pump Information:

Pump Model/Type MP-50
Tubing Type
Tubing Diameter in
Tubing Length 41.87 ft

Pump placement from TOC 41.87 ft

Well Information:

Well ID SGWC-12
Well diameter 2 in
Well Total Depth 50.2 ft
Screen Length 10 ft
Depth to Water 16.70 ft

Pumping Information:

Final Pumping Rate 150 mL/min
Total System Volume 0.485 L
Calculated Sample Rate 300 sec
Stabilization Drawdown 14 in
Total Volume Pumped 3.75 L

Low-Flow Sampling Stabilization Summary

	Time	Elapsed	Temp C	pH	SpCond μ S/cm	Turb NTU	DTW ft	RDO mg/L	ORP mV
Stabilization			+/- 0.5	+/- 0.1	+/- 3%	+/- 10		+/- 0.3	+/- 10
Last 5	14:50:21	300.09	19.93	6.27	274.07	9.68	17.30	1.20	27.68
Last 5	14:55:21	600.02	20.12	6.26	274.37	5.38	17.60	0.51	20.20
Last 5	15:00:21	900.02	20.19	6.28	274.44	3.59	17.75	0.36	17.35
Last 5	15:05:21	1200.02	20.17	6.28	273.79	2.55	17.85	0.34	15.11
Last 5	15:10:21	1500.02	19.96	6.28	272.86	2.41	17.90	0.32	12.47
Variance 0			0.07	0.01	0.07			-0.15	-2.85
Variance 1			-0.03	0.00	-0.65			-0.02	-2.24
Variance 2			-0.21	0.00	-0.93			-0.02	-2.63

Notes

SGWC-12@1511; FD-3(AP)

Grab Samples

Product Name: Low-Flow System

Date: 2016-12-06 15:58:38

Project Information:

Operator Name BH
Company Name Golder
Project Name Scherer
Site Name Scherer
Latitude 0° 0' 0"
Longitude 0° 0' 0"
Sonde SN 364455
Turbidity Make/Model LaMotte

Pump Information:

Pump Model/Type QED
Tubing Type polyethylene
Tubing Diameter .17 in
Tubing Length 29.00 ft

Pump placement from TOC 29.00 ft

Well Information:

Well ID SGWC-13
Well diameter 2 in
Well Total Depth 37.5 ft
Screen Length 10 ft
Depth to Water 3.46 ft

Pumping Information:

Final Pumping Rate 150 mL/min
Total System Volume 0.6144392 L
Calculated Sample Rate 300 sec
Stabilization Drawdown 12.48 in
Total Volume Pumped 3.75 L

Low-Flow Sampling Stabilization Summary

	Time	Elapsed	Temp C	pH	SpCond μ S/cm	Turb NTU	DTW ft	RDO mg/L	ORP mV
Stabilization			+/- 0	+/- 0.1	+/- 5%	+/- 10		+/- 10%	+/- 10
Last 5	15:36:15	300.02	19.04	6.07	229.44	2.05	4.30	1.07	70.92
Last 5	15:41:15	600.02	19.13	6.00	229.21	2.66	4.43	0.72	69.30
Last 5	15:46:15	900.02	19.08	5.99	228.45	1.88	4.46	0.38	67.59
Last 5	15:51:15	1200.02	19.11	5.99	228.70	0.98	4.50	0.29	66.75
Last 5	15:56:16	1500.64	19.12	5.98	229.83	1.27	4.50	0.24	66.25
Variance 0			-0.04	-0.01	-0.76			-0.34	-1.72
Variance 1			0.03	-0.01	0.25			-0.09	-0.84
Variance 2			0.02	-0.01	1.14			-0.05	-0.49

Notes

Sampled at 1600

Grab Samples

Product Name: Low-Flow System

Date: 2016-12-07 10:15:12

Project Information:

Operator Name DC
Company Name Golder
Project Name Plant Scherer
Site Name Plant Scherer
Latitude 0° 0' 0"
Longitude 0° 0' 0"
Sonde SN 449622
Turbidity Make/Model LaMotte

Pump Information:

Pump Model/Type QED ST1102PM
Tubing Type Bonded
Tubing Diameter 0.17 in
Tubing Length 28.11 ft

Pump placement from TOC 28.11 ft

Well Information:

Well ID SGWC-14
Well diameter 2 in
Well Total Depth 38.5 ft
Screen Length 10 ft
Depth to Water 10.39 ft

Pumping Information:

Final Pumping Rate 100 mL/min
Total System Volume 0.6104668 L
Calculated Sample Rate 300 sec
Stabilization Drawdown 0 in
Total Volume Pumped 3 L

Low-Flow Sampling Stabilization Summary

	Time	Elapsed	Temp C	pH	SpCond μ S/cm	Turb NTU	DTW ft	RDO mg/L	ORP mV
Stabilization			+/- 0.5	+/- 0.1	+/- 5%	+/- 10		+/- 10%	+/- 10
Last 5	09:53:34	600.03	15.50	5.79	422.27	3.21	10.41	1.01	81.87
Last 5	09:58:34	900.02	15.44	5.77	420.50	4.54	10.41	0.81	79.95
Last 5	10:03:34	1199.83	15.33	5.76	420.55	3.92	10.41	0.78	79.05
Last 5	10:08:34	1499.83	15.35	5.76	421.95	4.13	10.41	0.59	77.89
Last 5	10:13:34	1799.83	15.41	5.75	421.86	3.49	10.41	0.51	77.26
Variance 0			-0.11	-0.02	0.05			-0.04	-0.90
Variance 1			0.02	0.00	1.39			-0.19	-1.16
Variance 2			0.06	-0.01	-0.08			-0.08	-0.63

Notes

SGWC-14 sampled @ 1013, 3.49 NTU.

Grab Samples

Product Name: Low-Flow System

Date: 2016-12-07 12:00:36

Project Information:

Operator Name DC
Company Name Golder
Project Name Plant Scherer
Site Name Plant Scherer
Latitude 0° 0' 0"
Longitude 0° 0' 0"
Sonde SN 449622
Turbidity Make/Model LaMotte

Pump Information:

Pump Model/Type QED ST1102PM
Tubing Type Bonded
Tubing Diameter 0.17 in
Tubing Length 39.65 ft

Pump placement from TOC 39.65 ft

Well Information:

Well ID SGWC-15
Well diameter 2 in
Well Total Depth 48.2 ft
Screen Length 10 ft
Depth to Water 30.20 ft

Pumping Information:

Final Pumping Rate 250 mL/min
Total System Volume 0.6619747 L
Calculated Sample Rate 300 sec
Stabilization Drawdown 0 in
Total Volume Pumped 11.8 L

Low-Flow Sampling Stabilization Summary

	Time	Elapsed	Temp C	pH	SpCond μ S/cm	Turb NTU	DTW ft	RDO mg/L	ORP mV
Stabilization			+/- 0.5	+/- 0.1	+/- 5%	+/- 10		+/- 10%	+/- 10
Last 5	11:37:24	2099.94	17.56	4.59	424.65	11.30	30.21	1.39	138.55
Last 5	11:42:24	2399.94	17.50	4.61	425.65	8.77	30.21	1.38	142.92
Last 5	11:47:24	2699.94	17.49	4.61	425.89	6.97	30.21	1.38	149.92
Last 5	11:52:24	2999.94	17.64	4.62	425.99	5.27	30.21	1.37	156.26
Last 5	11:57:24	3299.94	17.72	4.63	425.02	4.92	30.21	1.35	161.90
Variance 0			-0.00	0.00	0.25			-0.00	7.00
Variance 1			0.14	0.01	0.10			-0.01	6.33
Variance 2			0.08	0.01	-0.97			-0.02	5.65

Notes

SGWC-15 sampled @ 1157, 4.92 NTU.

Grab Samples

Product Name: Low-Flow System

Date: 2016-12-07 15:17:42

Project Information:

Operator Name BH
Company Name Golder
Project Name Scherer
Site Name Scherer
Latitude 0° 0' 0"
Longitude 0° 0' 0"
Sonde SN 364455
Turbidity Make/Model LaMotte

Pump Information:

Pump Model/Type QED
Tubing Type polyethylene
Tubing Diameter .17 in
Tubing Length 34.62 ft

Pump placement from TOC 34.62 ft

Well Information:

Well ID SGWC-16
Well diameter 2 in
Well Total Depth 43.3 ft
Screen Length 10 ft
Depth to Water 25.80 ft

Pumping Information:

Final Pumping Rate 100 mL/min
Total System Volume 0.6395237 L
Calculated Sample Rate 300 sec
Stabilization Drawdown 0 in
Total Volume Pumped 3 L

Low-Flow Sampling Stabilization Summary

	Time	Elapsed	Temp C	pH	SpCond μ S/cm	Turb NTU	DTW ft	RDO mg/L	ORP mV
Stabilization			+/- 0	+/- 0.1	+/- 5%	+/- 10		+/- 10%	+/- 10
Last 5	14:56:21	600.69	18.85	5.40	72.26	0.50	25.82	3.87	102.98
Last 5	15:01:21	900.68	18.63	5.34	75.48	1.02	25.82	3.34	102.55
Last 5	15:06:21	1200.68	18.55	5.29	78.34	0.65	25.82	3.18	102.81
Last 5	15:11:21	1500.68	18.50	5.32	79.60	1.90	25.82	3.13	100.65
Last 5	15:16:21	1800.68	18.49	5.31	80.00	0.66	25.82	3.10	99.59
Variance 0			-0.08	-0.05	2.87			-0.15	0.26
Variance 1			-0.05	0.02	1.25			-0.05	-2.16
Variance 2			-0.01	-0.00	0.41			-0.03	-1.06

Notes

Sampled at 1520

Grab Samples

Product Name: Low-Flow System

Date: 2016-12-07 10:10:42

Project Information:

Operator Name BH
Company Name Golder
Project Name Scherer
Site Name Scherer
Latitude 0° 0' 0"
Longitude 0° 0' 0"
Sonde SN 364455
Turbidity Make/Model LaMotte

Pump Information:

Pump Model/Type QED
Tubing Type polyethylene
Tubing Diameter .17 in
Tubing Length 19.24 ft

Pump placement from TOC 19.24 ft

Well Information:

Well ID SGWC-17
Well diameter 2 in
Well Total Depth 27.6 ft
Screen Length 10 ft
Depth to Water 0.40 ft

Pumping Information:

Final Pumping Rate 80 mL/min
Total System Volume 0.5708762 L
Calculated Sample Rate 300 sec
Stabilization Drawdown 0.96 in
Total Volume Pumped 3.2 L

Low-Flow Sampling Stabilization Summary

	Time	Elapsed	Temp C	pH	SpCond μ S/cm	Turb NTU	DTW ft	RDO mg/L	ORP mV
Stabilization			+/- 0	+/- 0.1	+/- 5%	+/- 10		+/- 10%	+/- 10
Last 5	09:49:22	1200.02	15.74	6.19	444.46	2.69	0.48	0.18	56.20
Last 5	09:54:22	1500.02	15.73	6.19	444.14	3.82	0.48	0.16	56.14
Last 5	09:59:22	1800.02	15.79	6.19	444.04	2.30	0.48	0.16	55.84
Last 5	10:04:22	2100.02	15.78	6.19	444.39	2.23	0.48	0.17	55.66
Last 5	10:09:22	2400.16	16.13	6.19	443.60	2.05	0.48	0.21	55.21
Variance 0			0.05	0.00	-0.09			0.01	-0.30
Variance 1			-0.01	0.00	0.35			0.01	-0.18
Variance 2			0.36	0.00	-0.79			0.04	-0.45

Notes

Sampled at 1010/FB-2(AP)

Grab Samples

Product Name: Low-Flow System

Date: 2016-12-07 11:35:46

Project Information:

Operator Name BH
Company Name Golder
Project Name Scherer
Site Name Scherer
Latitude 0° 0' 0"
Longitude 0° 0' 0"
Sonde SN 364455
Turbidity Make/Model LaMotte

Pump Information:

Pump Model/Type QED
Tubing Type polyethylene
Tubing Diameter .17 in
Tubing Length 39.20 ft

Pump placement from TOC 39.20 ft

Well Information:

Well ID SGWC-18
Well diameter 2 in
Well Total Depth 47.60 ft
Screen Length 10 ft
Depth to Water 37.39 ft

Pumping Information:

Final Pumping Rate 100 mL/min
Total System Volume 0.6599662 L
Calculated Sample Rate 300 sec
Stabilization Drawdown 1.2 in
Total Volume Pumped 3.5 L

Low-Flow Sampling Stabilization Summary

	Time	Elapsed	Temp C	pH	SpCond μ S/cm	Turb NTU	DTW ft	RDO mg/L	ORP mV
Stabilization			+/- 0	+/- 0.1	+/- 5%	+/- 10		+/- 10%	+/- 10
Last 5	11:14:18	900.02	17.86	4.56	952.49	0.27	37.48	3.04	129.54
Last 5	11:19:18	1200.02	17.83	4.62	948.94	0.31	37.48	2.56	126.61
Last 5	11:24:18	1500.02	17.70	4.66	947.98	0.28	37.48	2.36	124.82
Last 5	11:29:18	1800.02	17.61	4.68	947.46	0.30	37.48	2.29	123.89
Last 5	11:34:18	2100.02	17.98	4.69	948.30	0.29	37.48	2.25	123.83
Variance 0			-0.13	0.04	-0.95			-0.20	-1.80
Variance 1			-0.08	0.02	-0.52			-0.07	-0.93
Variance 2			0.36	0.01	0.84			-0.04	-0.06

Notes

Sampled at 1135

Grab Samples

Product Name: Low-Flow System

Date: 2016-12-08 10:15:00

Project Information:

Operator Name DC
Company Name Golder
Project Name Plant Scherer
Site Name Plant Scherer
Latitude 0° 0' 0"
Longitude 0° 0' 0"
Sonde SN 449622
Turbidity Make/Model LaMotte

Pump Information:

Pump Model/Type QED ST1102PM
Tubing Type Bonded
Tubing Diameter 0.17 in
Tubing Length 29.0 ft

Pump placement from TOC 29.0 ft

Well Information:

Well ID SGWC-19
Well diameter 2 in
Well Total Depth 37.4 ft
Screen Length 10 ft
Depth to Water 16.35 ft

Pumping Information:

Final Pumping Rate 100 mL/min
Total System Volume 0.6144392 L
Calculated Sample Rate 300 sec
Stabilization Drawdown 4 in
Total Volume Pumped 3 L

Low-Flow Sampling Stabilization Summary

	Time	Elapsed	Temp C	pH	SpCond μ S/cm	Turb NTU	DTW ft	RDO mg/L	ORP mV
Stabilization			+/- 0.5	+/- 0.1	+/- 5%	+/- 10		+/- 10%	+/- 10
Last 5	09:51:26	600.00	16.70	5.29	485.28	1.29	16.68	1.98	109.12
Last 5	09:56:26	899.99	16.83	5.32	483.81	1.30	16.68	1.91	97.15
Last 5	10:01:26	1199.99	16.79	5.36	482.79	1.53	16.69	1.82	92.58
Last 5	10:06:26	1500.00	16.81	5.38	481.81	1.58	16.69	1.76	89.48
Last 5	10:11:26	1799.99	16.87	5.39	483.91	1.50	16.69	1.76	87.47
Variance 0			-0.04	0.04	-1.02			-0.09	-4.56
Variance 1			0.02	0.02	-0.98			-0.06	-3.10
Variance 2			0.06	0.01	2.10			0.00	-2.01

Notes

SGWC-19 sampled @ 1011, 1.50 NTU.

Grab Samples

Product Name: Low-Flow System

Date: 2016-12-08 10:06:07

Project Information:

Operator Name BH
Company Name Golder
Project Name Scherer
Site Name Scherer
Latitude 0° 0' 0"
Longitude 0° 0' 0"
Sonde SN 364455
Turbidity Make/Model LaMotte

Pump Information:

Pump Model/Type QED
Tubing Type polyethylene
Tubing Diameter .17 in
Tubing Length 19.5 ft

Pump placement from TOC 19.5 ft

Well Information:

Well ID SGWC-20
Well diameter 2 in
Well Total Depth 27.9 ft
Screen Length 10 ft
Depth to Water 13.69 ft

Pumping Information:

Final Pumping Rate 100 mL/min
Total System Volume 0.5720367 L
Calculated Sample Rate 300 sec
Stabilization Drawdown 3.96 in
Total Volume Pumped 3 L

Low-Flow Sampling Stabilization Summary

	Time	Elapsed	Temp C	pH	SpCond μ S/cm	Turb NTU	DTW ft	RDO mg/L	ORP mV
Stabilization			+/- 0	+/- 0.1	+/- 5%	+/- 10		+/- 10%	+/- 10
Last 5	09:44:42	600.02	16.06	4.23	532.04	0.64	14.05	1.21	171.28
Last 5	09:49:42	900.02	15.73	4.25	523.99	0.52	14.02	0.73	159.21
Last 5	09:54:42	1200.36	15.95	4.26	522.86	0.60	14.02	0.61	153.39
Last 5	09:59:42	1500.36	15.93	4.27	522.30	0.50	14.02	0.57	150.35
Last 5	10:04:42	1800.36	16.00	4.28	529.22	0.44	14.02	0.61	148.96
Variance 0			0.22	0.01	-1.13			-0.12	-5.82
Variance 1			-0.02	0.01	-0.56			-0.05	-3.04
Variance 2			0.07	0.00	6.92			0.04	-1.39

Notes

Sampled at 1005

Grab Samples

Product Name: Low-Flow System

Date: 2016-12-07 11:56:56

Project Information:

Operator Name AME
Company Name Golder
Project Name Scherer GW Dec 2016
Site Name Scherer
Latitude 0° 0' 0"
Longitude 0° 0' 0"
Sonde SN 465016
Turbidity Make/Model LaMotte 2020

Pump Information:

Pump Model/Type MP-50
Tubing Type poly
Tubing Diameter in
Tubing Length 19.39 ft

Pump placement from TOC 19.39 ft

Well Information:

Well ID SGWC-21
Well diameter 2 in
Well Total Depth 27.79 ft
Screen Length 10 ft
Depth to Water 1.50 ft

Pumping Information:

Final Pumping Rate 175 mL/min
Total System Volume 0.485 L
Calculated Sample Rate 300 sec
Stabilization Drawdown 1.8 in
Total Volume Pumped 3.5 L

Low-Flow Sampling Stabilization Summary

	Time	Elapsed	Temp C	pH	SpCond μ S/cm	Turb NTU	DTW ft	RDO mg/L	ORP mV
Stabilization			+/- 0.5	+/- 0.1	+/- 3%	+/- 10		+/- 0.3	+/- 10
Last 5	11:41:01	300.09	18.52	5.99	376.98	1.44	1.60	1.10	75.93
Last 5	11:46:01	600.02	18.52	6.01	378.05	1.80	1.75	0.42	82.16
Last 5	11:51:01	900.02	18.78	6.02	378.12	2.88	1.65	0.21	88.75
Last 5	11:56:01	1200.02	18.79	6.03	377.57	3.24	1.65	0.16	88.03
Last 5									
Variance 0			-0.00	0.02	1.08			-0.69	6.23
Variance 1			0.27	0.01	0.07			-0.20	6.58
Variance 2			0.01	0.01	-0.55			-0.05	-0.71

Notes

SGWA-21@1156

Grab Samples

Product Name: Low-Flow System

Date: 2016-12-07 10:57:24

Project Information:

Operator Name AME
Company Name Golder
Project Name Scherer GW Dec 2016
Site Name Scherer
Latitude 0° 0' 0"
Longitude 0° 0' 0"
Sonde SN 465016
Turbidity Make/Model LaMotte 2020

Pump Information:

Pump Model/Type MP-50
Tubing Type poly
Tubing Diameter in
Tubing Length 44.2 ft

Pump placement from TOC 44.2 ft

Well Information:

Well ID SGWC-22
Well diameter 2 in
Well Total Depth 52.6 ft
Screen Length 10 ft
Depth to Water 28.60 ft

Pumping Information:

Final Pumping Rate 125 mL/min
Total System Volume 0.485 L
Calculated Sample Rate 300 sec
Stabilization Drawdown 1.1 in
Total Volume Pumped 3.125 L

Low-Flow Sampling Stabilization Summary

	Time	Elapsed	Temp C	pH	SpCond μ S/cm	Turb NTU	DTW ft	RDO mg/L	ORP mV
Stabilization			+/- 0.5	+/- 0.1	+/- 3%	+/- 10		+/- 0.3	+/- 10
Last 5	10:35:43	300.02	18.92	5.79	271.60	2.51	28.10	2.13	69.23
Last 5	10:40:43	600.02	19.25	5.71	274.71	1.22	28.28	1.29	70.67
Last 5	10:45:43	900.02	19.01	5.71	275.12	1.48	28.36	0.83	70.12
Last 5	10:50:43	1200.02	18.66	5.70	276.41	1.21	28.40	0.43	69.67
Last 5	10:55:43	1500.02	18.53	5.71	275.89	--	--	0.32	69.01
Variance 0			-0.24	-0.00	0.40			-0.46	-0.55
Variance 1			-0.35	-0.00	1.29			-0.40	-0.45
Variance 2			-0.13	0.00	-0.52			-0.10	-0.66

Notes

SGWC-22@1056 (NTU=1.19;DTW=28.35); FB-3(AP)@1100

Grab Samples

Product Name: Low-Flow System

Date: 2016-12-07 10:08:37

Project Information:

Operator Name AME
Company Name Golder
Project Name Scherer GW Dec 2016
Site Name Scherer
Latitude 0° 0' 0"
Longitude 0° 0' 0"
Sonde SN 465016
Turbidity Make/Model LaMotte 2020

Pump Information:

Pump Model/Type MP-50
Tubing Type poly
Tubing Diameter in
Tubing Length 44.25 ft

Pump placement from TOC 44.25 ft

Well Information:

Well ID SGWC-23
Well diameter 2 in
Well Total Depth 52.60 ft
Screen Length 10 ft
Depth to Water 32.30 ft

Pumping Information:

Final Pumping Rate 125 mL/min
Total System Volume 0.485 L
Calculated Sample Rate 300 sec
Stabilization Drawdown 1.2 in
Total Volume Pumped 5.625 L

Low-Flow Sampling Stabilization Summary

	Time	Elapsed	Temp C	pH	SpCond μ S/cm	Turb NTU	DTW ft	RDO mg/L	ORP mV
Stabilization			+/- 0.5	+/- 0.1	+/- 3%	+/- 10		+/- 0.3	+/- 10
Last 5	09:47:52	1500.10	16.87	5.88	327.37	0.45	33.40	0.92	72.35
Last 5	09:52:52	1800.03	16.91	5.89	342.01	0.46	33.40	1.07	72.81
Last 5	09:57:52	2100.02	17.10	5.89	350.58	0.42	33.40	1.17	72.46
Last 5	10:02:52	2400.02	17.28	5.88	355.98	0.36	33.40	1.24	72.40
Last 5	10:07:53	2700.89	17.17	5.87	358.49	0.34	33.40	1.29	72.61
Variance 0			0.18	0.00	8.57			0.10	-0.35
Variance 1			0.18	-0.01	5.41			0.07	-0.06
Variance 2			-0.11	-0.01	2.50			0.05	0.22

Notes

SGWC-23@1008; FB-1(AP)

Grab Samples

Product Name: Low-Flow System

Date: 2016-12-05 15:15:46

Project Information:

Operator Name AME
Company Name Golder
Project Name Scherer GW Dec 2016
Site Name Scherer
Latitude 0° 0' 0"
Longitude 0° 0' 0"
Sonde SN 465016
Turbidity Make/Model LaMotte 2020

Pump Information:

Pump Model/Type MP-50
Tubing Type
Tubing Diameter in
Tubing Length ft
Pump placement from TOC 34.80 ft

Well Information:

Well ID SGWA-24
Well diameter 2 in
Well Total Depth 42.90 ft
Screen Length 10 ft
Depth to Water 15.90 ft

Pumping Information:

Final Pumping Rate 150 mL/min
Total System Volume 0.09 L
Calculated Sample Rate 300 sec
Stabilization Drawdown 6 in
Total Volume Pumped 18 L

Low-Flow Sampling Stabilization Summary

	Time	Elapsed	Temp C	pH	SpCond μ S/cm	Turb NTU	DTW ft	RDO mg/L	ORP mV
Stabilization			+/- 0.5	+/- 0.1	+/- 3%	+/- 10		+/- 0.3	+/- 10
Last 5	14:52:08	5700.37	17.35	6.31	133.61	7.12	16.40	1.36	62.83
Last 5	14:57:08	6000.37	17.28	6.31	133.75	6.92	16.40	1.37	63.38
Last 5	15:02:08	6300.37	17.36	6.32	133.68	4.98	16.40	1.33	61.74
Last 5	15:07:08	6600.37	17.29	6.31	133.80	4.23	16.40	1.34	61.99
Last 5	15:12:08	6900.37	17.36	6.32	133.85	4.56	16.40	1.32	61.26
Variance 0			0.08	0.01	-0.07			-0.04	-1.64
Variance 1			-0.07	-0.01	0.12			0.01	0.24
Variance 2			0.07	0.01	0.05			-0.02	-0.72

Notes

SGWA-24 @ 1313; FD-1(AP)

Grab Samples

Product Name: Low-Flow System

Date: 2016-12-06 13:01:13

Project Information:

Operator Name AME
Company Name Golder
Project Name Scherer GW Dec 2016
Site Name Scherer
Latitude 0° 0' 0"
Longitude 0° 0' 0"
Sonde SN 465016
Turbidity Make/Model LaMotte 2020

Pump Information:

Pump Model/Type MP-50
Tubing Type
Tubing Diameter in
Tubing Length 39.75 ft

Pump placement from TOC 39.75 ft

Well Information:

Well ID SGWA-25
Well diameter 2 in
Well Total Depth 48.0 ft
Screen Length 10 ft
Depth to Water 31.0 ft

Pumping Information:

Final Pumping Rate 175 mL/min
Total System Volume 0.485 L
Calculated Sample Rate 300 sec
Stabilization Drawdown 3 in
Total Volume Pumped 3.5 L

Low-Flow Sampling Stabilization Summary

	Time	Elapsed	Temp C	pH	SpCond μ S/cm	Turb NTU	DTW ft	RDO mg/L	ORP mV
Stabilization			+/- 0.5	+/- 0.1	+/- 3%	+/- 10		+/- 0.3	+/- 10
Last 5	12:43:46	300.10	17.80	6.26	127.52	1.34	31.20	2.82	40.76
Last 5	12:48:46	600.02	17.79	6.24	131.43	1.70	31.20	0.72	37.52
Last 5	12:53:46	900.02	17.80	6.21	130.05	1.71	31.20	0.35	37.09
Last 5	12:58:46	1200.02	17.80	6.19	128.73	1.69	31.20	0.30	35.33
Last 5									
Variance 0			-0.02	-0.02	3.91			-2.10	-3.24
Variance 1			0.01	-0.03	-1.38			-0.37	-0.43
Variance 2			-0.00	-0.02	-1.32			-0.05	-1.76

Notes

SGWA-25@1300

Grab Samples



APPENDIX A

ANALYTICAL RESULTS & FIELD DATA FORMS
(FEBRUARY 2017)

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

TestAmerica Laboratories, Inc.

TestAmerica Pensacola

3355 McLemore Drive

Pensacola, FL 32514

Tel: (850)474-1001

TestAmerica Job ID: 400-134140-1

TestAmerica Sample Delivery Group: Ash Pond

Client Project/Site: CCR Plant Scherer

For:

Southern Company

241 Ralph McGill Blvd SE

B10185

Atlanta, Georgia 30308

Attn: Joju Abraham



Authorized for release by:

3/6/2017 4:12:24 PM

Cheyenne Whitmire, Project Manager II

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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.

1

2

3

4

5

6

7

8

9

10

11

12

13

14



Table of Contents

Cover Page	1
Table of Contents	2
Case Narrative	3
Detection Summary	4
Method Summary	14
Sample Summary	15
Client Sample Results	16
Definitions	50
Chronicle	51
QC Association	62
QC Sample Results	70
Chain of Custody	81
Receipt Checklists	84
Certification Summary	85

Case Narrative

Client: Southern Company
Project/Site: CCR Plant Scherer

TestAmerica Job ID: 400-134140-1
SDG: Ash Pond

Job ID: 400-134140-1

Laboratory: TestAmerica Pensacola

Narrative

Job Narrative 400-134140-1

HPLC/IC

Method(s) 300.0: The following samples were diluted to bring the concentration of target analytes within the calibration range: SGWC-8 (400-134140-4), SGWC-17 (400-134140-19), FD-2(AP) (400-134140-20), SGWC-13 (400-134140-21), SGWC-14 (400-134140-22), SGWC-15 (400-134140-23), SGWC-23 (400-134140-24), SGWC-19 (400-134140-25), SGWC-9 (400-134140-26), SGWC-22 (400-134140-29), SGWC-21 (400-134140-31), SGWC-20 (400-134140-32) and SGWC-18 (400-134140-33). Elevated reporting limits (RLs) are provided.

Metals

Method(s) 6020: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 343053 and analytical batch 343697 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.

Method(s) 6020: The following samples were diluted to bring the concentration of target analytes within the calibration range: SGWC-19 (400-134140-25), SGWC-20 (400-134140-32) and SGWC-18 (400-134140-33). Elevated reporting limits (RLs) are provided.

Detection Summary

Client: Southern Company
Project/Site: CCR Plant Scherer

TestAmerica Job ID: 400-134140-1
SDG: Ash Pond

Client Sample ID: SGWA-3

Lab Sample ID: 400-134140-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chloride	2.4		1.0	0.89	mg/L	1		300.0	Total/NA
Sulfate	1.9		1.0	0.70	mg/L	1		300.0	Total/NA
Barium	0.032		0.0025	0.00049	mg/L	5		6020	Total Recoverable
Calcium	4.6		0.25	0.13	mg/L	5		6020	Total Recoverable
Chromium	0.0076		0.0025	0.0011	mg/L	5		6020	Total Recoverable
Molybdenum	0.0011	J	0.015	0.00085	mg/L	5		6020	Total Recoverable
Total Dissolved Solids	32		5.0	3.4	mg/L	1		SM 2540C	Total/NA

Client Sample ID: FB-1(AP)

Lab Sample ID: 400-134140-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Arsenic	0.00062	J	0.0013	0.00046	mg/L	5		6020	Total Recoverable
Molybdenum	0.0027	J	0.015	0.00085	mg/L	5		6020	Total Recoverable
Selenium	0.00064	J	0.0013	0.00024	mg/L	5		6020	Total Recoverable

Client Sample ID: SGWC-6

Lab Sample ID: 400-134140-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chloride	1.9		1.0	0.89	mg/L	1		300.0	Total/NA
Fluoride	0.20		0.20	0.082	mg/L	1		300.0	Total/NA
Sulfate	1.0		1.0	0.70	mg/L	1		300.0	Total/NA
Arsenic	0.00060	J	0.0013	0.00046	mg/L	5		6020	Total Recoverable
Barium	0.056		0.0025	0.00049	mg/L	5		6020	Total Recoverable
Calcium	7.2		0.25	0.13	mg/L	5		6020	Total Recoverable
Cobalt	0.0022	J	0.0025	0.00040	mg/L	5		6020	Total Recoverable
Total Dissolved Solids	54		5.0	3.4	mg/L	1		SM 2540C	Total/NA

Client Sample ID: SGWC-8

Lab Sample ID: 400-134140-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chloride	12		1.0	0.89	mg/L	1		300.0	Total/NA
Fluoride	0.39		0.20	0.082	mg/L	1		300.0	Total/NA
Sulfate	73		5.0	3.5	mg/L	5		300.0	Total/NA
Arsenic	0.00050	J	0.0013	0.00046	mg/L	5		6020	Total Recoverable
Barium	0.18		0.0025	0.00049	mg/L	5		6020	Total Recoverable
Boron	0.063		0.050	0.021	mg/L	5		6020	Total Recoverable
Calcium	49		0.25	0.13	mg/L	5		6020	Total Recoverable
Total Dissolved Solids	370		5.0	3.4	mg/L	1		SM 2540C	Total/NA

This Detection Summary does not include radiochemical test results.

TestAmerica Pensacola

Detection Summary

Client: Southern Company
Project/Site: CCR Plant Scherer

TestAmerica Job ID: 400-134140-1
SDG: Ash Pond

Client Sample ID: SGWA-5

Lab Sample ID: 400-134140-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chloride	1.8		1.0	0.89	mg/L	1		300.0	Total/NA
Barium	0.010		0.0025	0.00049	mg/L	5		6020	Total Recoverable
Calcium	1.4		0.25	0.13	mg/L	5		6020	Total Recoverable
Total Dissolved Solids	52		5.0	3.4	mg/L	1		SM 2540C	Total/NA

Client Sample ID: FD-1(AP)

Lab Sample ID: 400-134140-6

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chloride	1.8		1.0	0.89	mg/L	1		300.0	Total/NA
Arsenic	0.00050	J	0.0013	0.00046	mg/L	5		6020	Total Recoverable
Barium	0.0097		0.0025	0.00049	mg/L	5		6020	Total Recoverable
Calcium	1.5		0.25	0.13	mg/L	5		6020	Total Recoverable
Total Dissolved Solids	54		5.0	3.4	mg/L	1		SM 2540C	Total/NA

Client Sample ID: SGWA-4

Lab Sample ID: 400-134140-7

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chloride	1.3		1.0	0.89	mg/L	1		300.0	Total/NA
Fluoride	0.10	J	0.20	0.082	mg/L	1		300.0	Total/NA
Sulfate	1.1		1.0	0.70	mg/L	1		300.0	Total/NA
Barium	0.050		0.0025	0.00049	mg/L	5		6020	Total Recoverable
Calcium	17		0.25	0.13	mg/L	5		6020	Total Recoverable
Chromium	0.0046		0.0025	0.0011	mg/L	5		6020	Total Recoverable
Total Dissolved Solids	78		5.0	3.4	mg/L	1		SM 2540C	Total/NA

Client Sample ID: SGWC-7

Lab Sample ID: 400-134140-8

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chloride	5.8		1.0	0.89	mg/L	1		300.0	Total/NA
Fluoride	0.17	J	0.20	0.082	mg/L	1		300.0	Total/NA
Sulfate	21		1.0	0.70	mg/L	1		300.0	Total/NA
Arsenic	0.00059	J	0.0013	0.00046	mg/L	5		6020	Total Recoverable
Barium	0.30		0.0025	0.00049	mg/L	5		6020	Total Recoverable
Boron	0.031	J	0.050	0.021	mg/L	5		6020	Total Recoverable
Calcium	24		0.25	0.13	mg/L	5		6020	Total Recoverable
Cobalt	0.0093		0.0025	0.00040	mg/L	5		6020	Total Recoverable
Lithium	0.0043	J	0.0050	0.0032	mg/L	5		6020	Total Recoverable
Total Dissolved Solids	210		5.0	3.4	mg/L	1		SM 2540C	Total/NA

This Detection Summary does not include radiochemical test results.

TestAmerica Pensacola

Detection Summary

Client: Southern Company
Project/Site: CCR Plant Scherer

TestAmerica Job ID: 400-134140-1
SDG: Ash Pond

Client Sample ID: SGWA-24

Lab Sample ID: 400-134140-9

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chloride	1.9		1.0	0.89	mg/L	1		300.0	Total/NA
Arsenic	0.00057	J	0.0013	0.00046	mg/L	5		6020	Total Recoverable
Barium	0.021		0.0025	0.00049	mg/L	5		6020	Total Recoverable
Calcium	13		0.25	0.13	mg/L	5		6020	Total Recoverable
Chromium	0.0037		0.0025	0.0011	mg/L	5		6020	Total Recoverable
Total Dissolved Solids	86		5.0	3.4	mg/L	1		SM 2540C	Total/NA

Client Sample ID: SGWA-1

Lab Sample ID: 400-134140-10

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chloride	2.0		1.0	0.89	mg/L	1		300.0	Total/NA
Sulfate	0.76	J	1.0	0.70	mg/L	1		300.0	Total/NA
Arsenic	0.00055	J	0.0013	0.00046	mg/L	5		6020	Total Recoverable
Barium	0.046		0.0025	0.00049	mg/L	5		6020	Total Recoverable
Calcium	1.8		0.25	0.13	mg/L	5		6020	Total Recoverable
Cobalt	0.011		0.0025	0.00040	mg/L	5		6020	Total Recoverable
Total Dissolved Solids	18		5.0	3.4	mg/L	1		SM 2540C	Total/NA

Client Sample ID: SGWA-2

Lab Sample ID: 400-134140-11

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chloride	1.5		1.0	0.89	mg/L	1		300.0	Total/NA
Arsenic	0.00046	J	0.0013	0.00046	mg/L	5		6020	Total Recoverable
Barium	0.035		0.0025	0.00049	mg/L	5		6020	Total Recoverable
Calcium	11		0.25	0.13	mg/L	5		6020	Total Recoverable
Chromium	0.014		0.0025	0.0011	mg/L	5		6020	Total Recoverable
Total Dissolved Solids	76		5.0	3.4	mg/L	1		SM 2540C	Total/NA

Client Sample ID: EB-1(AP)

Lab Sample ID: 400-134140-12

No Detections.

Client Sample ID: SGWA-25

Lab Sample ID: 400-134140-13

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chloride	1.5		1.0	0.89	mg/L	1		300.0	Total/NA
Arsenic	0.0015		0.0013	0.00046	mg/L	5		6020	Total Recoverable
Barium	0.018		0.0025	0.00049	mg/L	5		6020	Total Recoverable
Calcium	12		0.25	0.13	mg/L	5		6020	Total Recoverable

This Detection Summary does not include radiochemical test results.

TestAmerica Pensacola

Detection Summary

Client: Southern Company
Project/Site: CCR Plant Scherer

TestAmerica Job ID: 400-134140-1
SDG: Ash Pond

Client Sample ID: SGWA-25 (Continued)

Lab Sample ID: 400-134140-13

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Cobalt	0.018		0.0025	0.00040	mg/L	5		6020	Total Recoverable
Total Dissolved Solids	98		5.0	3.4	mg/L	1		SM 2540C	Total/NA

Client Sample ID: SGWC-10

Lab Sample ID: 400-134140-14

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chloride	9.0		1.0	0.89	mg/L	1		300.0	Total/NA
Sulfate	1.3		1.0	0.70	mg/L	1		300.0	Total/NA
Arsenic	0.00050	J	0.0013	0.00046	mg/L	5		6020	Total Recoverable
Barium	0.025		0.0025	0.00049	mg/L	5		6020	Total Recoverable
Boron	0.035	J	0.050	0.021	mg/L	5		6020	Total Recoverable
Calcium	1.5		0.25	0.13	mg/L	5		6020	Total Recoverable
Cobalt	0.038		0.0025	0.00040	mg/L	5		6020	Total Recoverable
Total Dissolved Solids	18		5.0	3.4	mg/L	1		SM 2540C	Total/NA

Client Sample ID: EB-2(AP)

Lab Sample ID: 400-134140-15

No Detections.

Client Sample ID: SGWC-12

Lab Sample ID: 400-134140-16

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chloride	8.7		1.0	0.89	mg/L	1		300.0	Total/NA
Fluoride	0.13	J	0.20	0.082	mg/L	1		300.0	Total/NA
Sulfate	33		1.0	0.70	mg/L	1		300.0	Total/NA
Arsenic	0.00076	J	0.0013	0.00046	mg/L	5		6020	Total Recoverable
Barium	0.036		0.0025	0.00049	mg/L	5		6020	Total Recoverable
Calcium	23		0.25	0.13	mg/L	5		6020	Total Recoverable
Cobalt	0.0040		0.0025	0.00040	mg/L	5		6020	Total Recoverable
Total Dissolved Solids	200		5.0	3.4	mg/L	1		SM 2540C	Total/NA

Client Sample ID: FB-2(AP)

Lab Sample ID: 400-134140-17

No Detections.

Client Sample ID: SGWC-11

Lab Sample ID: 400-134140-18

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chloride	7.2		1.0	0.89	mg/L	1		300.0	Total/NA
Sulfate	1.2		1.0	0.70	mg/L	1		300.0	Total/NA
Arsenic	0.0011	J	0.0013	0.00046	mg/L	5		6020	Total Recoverable
Barium	0.036		0.0025	0.00049	mg/L	5		6020	Total Recoverable

This Detection Summary does not include radiochemical test results.

TestAmerica Pensacola

Detection Summary

Client: Southern Company
Project/Site: CCR Plant Scherer

TestAmerica Job ID: 400-134140-1
SDG: Ash Pond

Client Sample ID: SGWC-11 (Continued)

Lab Sample ID: 400-134140-18

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Boron	0.28		0.050	0.021	mg/L	5		6020	Total Recoverable
Calcium	1.9		0.25	0.13	mg/L	5		6020	Total Recoverable
Cobalt	0.029		0.0025	0.00040	mg/L	5		6020	Total Recoverable
Total Dissolved Solids	34		5.0	3.4	mg/L	1		SM 2540C	Total/NA

Client Sample ID: SGWC-17

Lab Sample ID: 400-134140-19

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chloride	8.1		1.0	0.89	mg/L	1		300.0	Total/NA
Fluoride	0.089	J	0.20	0.082	mg/L	1		300.0	Total/NA
Sulfate	160		5.0	3.5	mg/L	5		300.0	Total/NA
Arsenic	0.00059	J	0.0013	0.00046	mg/L	5		6020	Total Recoverable
Barium	0.020		0.0025	0.00049	mg/L	5		6020	Total Recoverable
Boron	0.38		0.050	0.021	mg/L	5		6020	Total Recoverable
Calcium	44		0.25	0.13	mg/L	5		6020	Total Recoverable
Chromium	0.0044		0.0025	0.0011	mg/L	5		6020	Total Recoverable
Cobalt	0.00069	J	0.0025	0.00040	mg/L	5		6020	Total Recoverable
Total Dissolved Solids	350		5.0	3.4	mg/L	1		SM 2540C	Total/NA

Client Sample ID: FD-2(AP)

Lab Sample ID: 400-134140-20

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chloride	8.1		1.0	0.89	mg/L	1		300.0	Total/NA
Fluoride	0.089	J	0.20	0.082	mg/L	1		300.0	Total/NA
Sulfate	160		5.0	3.5	mg/L	5		300.0	Total/NA
Arsenic	0.00070	J	0.0013	0.00046	mg/L	5		6020	Total Recoverable
Barium	0.019		0.0025	0.00049	mg/L	5		6020	Total Recoverable
Boron	0.38		0.050	0.021	mg/L	5		6020	Total Recoverable
Chromium	0.0043		0.0025	0.0011	mg/L	5		6020	Total Recoverable
Cobalt	0.00067	J	0.0025	0.00040	mg/L	5		6020	Total Recoverable
Molybdenum	0.0066	J	0.015	0.00085	mg/L	5		6020	Total Recoverable
Selenium	0.0033		0.0013	0.00024	mg/L	5		6020	Total Recoverable
Calcium - RA	47		0.25	0.13	mg/L	5		6020	Total Recoverable
Total Dissolved Solids	350		5.0	3.4	mg/L	1		SM 2540C	Total/NA

Client Sample ID: SGWC-13

Lab Sample ID: 400-134140-21

This Detection Summary does not include radiochemical test results.

TestAmerica Pensacola

Detection Summary

Client: Southern Company
Project/Site: CCR Plant Scherer

TestAmerica Job ID: 400-134140-1
SDG: Ash Pond

Client Sample ID: SGWC-13 (Continued)

Lab Sample ID: 400-134140-21

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chloride	5.4		1.0	0.89	mg/L	1		300.0	Total/NA
Sulfate	73		5.0	3.5	mg/L	5		300.0	Total/NA
Barium	0.026		0.0025	0.00049	mg/L	5		6020	Total Recoverable
Boron	0.50		0.050	0.021	mg/L	5		6020	Total Recoverable
Cobalt	0.0073		0.0025	0.00040	mg/L	5		6020	Total Recoverable
Calcium - RA	17		0.25	0.13	mg/L	5		6020	Total Recoverable
Total Dissolved Solids	160		5.0	3.4	mg/L	1		SM 2540C	Total/NA

Client Sample ID: SGWC-14

Lab Sample ID: 400-134140-22

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chloride	11		1.0	0.89	mg/L	1		300.0	Total/NA
Sulfate	190		5.0	3.5	mg/L	5		300.0	Total/NA
Barium	0.061		0.0025	0.00049	mg/L	5		6020	Total Recoverable
Boron	1.5		0.050	0.021	mg/L	5		6020	Total Recoverable
Cobalt	0.0059		0.0025	0.00040	mg/L	5		6020	Total Recoverable
Molybdenum	0.0030	J	0.015	0.00085	mg/L	5		6020	Total Recoverable
Selenium	0.00066	J	0.0013	0.00024	mg/L	5		6020	Total Recoverable
Calcium - RA	45		0.25	0.13	mg/L	5		6020	Total Recoverable
Total Dissolved Solids	340		5.0	3.4	mg/L	1		SM 2540C	Total/NA

Client Sample ID: SGWC-15

Lab Sample ID: 400-134140-23

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chloride	9.8		1.0	0.89	mg/L	1		300.0	Total/NA
Fluoride	0.12	J	0.20	0.082	mg/L	1		300.0	Total/NA
Sulfate	190		5.0	3.5	mg/L	5		300.0	Total/NA
Arsenic	0.00073	J	0.0013	0.00046	mg/L	5		6020	Total Recoverable
Barium	0.038		0.0025	0.00049	mg/L	5		6020	Total Recoverable
Beryllium	0.00037	J	0.0025	0.00034	mg/L	5		6020	Total Recoverable
Boron	1.5		0.050	0.021	mg/L	5		6020	Total Recoverable
Cadmium	0.00044	J	0.0025	0.00034	mg/L	5		6020	Total Recoverable
Chromium	0.030		0.0025	0.0011	mg/L	5		6020	Total Recoverable
Cobalt	0.24		0.0025	0.00040	mg/L	5		6020	Total Recoverable
Selenium	0.00075	J	0.0013	0.00024	mg/L	5		6020	Total Recoverable
Thallium	0.000085	J	0.00050	0.000085	mg/L	5		6020	Total Recoverable

This Detection Summary does not include radiochemical test results.

TestAmerica Pensacola

Detection Summary

Client: Southern Company
Project/Site: CCR Plant Scherer

TestAmerica Job ID: 400-134140-1
SDG: Ash Pond

Client Sample ID: SGWC-15 (Continued)

Lab Sample ID: 400-134140-23

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Calcium - RA	17		0.25	0.13	mg/L		5	6020	Total Recoverable
Mercury	0.00011	J	0.00020	0.000070	mg/L		1	7470A	Total/NA
Total Dissolved Solids	310		5.0	3.4	mg/L		1	SM 2540C	Total/NA

Client Sample ID: SGWC-23

Lab Sample ID: 400-134140-24

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chloride	10		1.0	0.89	mg/L		1	300.0	Total/NA
Fluoride	0.092	J	0.20	0.082	mg/L		1	300.0	Total/NA
Sulfate	120		5.0	3.5	mg/L		5	300.0	Total/NA
Barium	0.090		0.0025	0.00049	mg/L		5	6020	Total Recoverable
Boron - RA	0.82		0.050	0.021	mg/L		5	6020	Total Recoverable
Calcium - RA	32		0.25	0.13	mg/L		5	6020	Total Recoverable
Total Dissolved Solids	260		5.0	3.4	mg/L		1	SM 2540C	Total/NA

Client Sample ID: SGWC-19

Lab Sample ID: 400-134140-25

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chloride	7.4		1.0	0.89	mg/L		1	300.0	Total/NA
Sulfate	210		5.0	3.5	mg/L		5	300.0	Total/NA
Barium	0.040		0.0025	0.00049	mg/L		5	6020	Total Recoverable
Cadmium	0.00036	J	0.0025	0.00034	mg/L		5	6020	Total Recoverable
Chromium	0.015		0.0025	0.0011	mg/L		5	6020	Total Recoverable
Cobalt	0.00049	J	0.0025	0.00040	mg/L		5	6020	Total Recoverable
Boron - DL	2.3		0.25	0.11	mg/L		25	6020	Total Recoverable
Calcium - RA	41		0.25	0.13	mg/L		5	6020	Total Recoverable
Total Dissolved Solids	340		5.0	3.4	mg/L		1	SM 2540C	Total/NA

Client Sample ID: SGWC-9

Lab Sample ID: 400-134140-26

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chloride	9.5		1.0	0.89	mg/L		1	300.0	Total/NA
Fluoride	0.097	J	0.20	0.082	mg/L		1	300.0	Total/NA
Sulfate	300		10	7.0	mg/L		10	300.0	Total/NA
Arsenic	0.00056	J	0.0013	0.00046	mg/L		5	6020	Total Recoverable
Barium	0.056		0.0025	0.00049	mg/L		5	6020	Total Recoverable
Cobalt	0.014		0.0025	0.00040	mg/L		5	6020	Total Recoverable
Boron - RA	1.6		0.050	0.021	mg/L		5	6020	Total Recoverable
Calcium - RA	55		0.25	0.13	mg/L		5	6020	Total Recoverable

This Detection Summary does not include radiochemical test results.

TestAmerica Pensacola

Detection Summary

Client: Southern Company
Project/Site: CCR Plant Scherer

TestAmerica Job ID: 400-134140-1
SDG: Ash Pond

Client Sample ID: SGWC-9 (Continued)

Lab Sample ID: 400-134140-26

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Total Dissolved Solids	520		5.0	3.4	mg/L	1		SM 2540C	Total/NA

Client Sample ID: SGWC-16

Lab Sample ID: 400-134140-27

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chloride	7.7		1.0	0.89	mg/L	1		300.0	Total/NA
Sulfate	17		1.0	0.70	mg/L	1		300.0	Total/NA
Barium	0.017		0.0025	0.00049	mg/L	5		6020	Total Recoverable
Chromium	0.0097		0.0025	0.0011	mg/L	5		6020	Total Recoverable
Cobalt	0.0033		0.0025	0.00040	mg/L	5		6020	Total Recoverable
Boron - RA	0.58		0.050	0.021	mg/L	5		6020	Total Recoverable
Calcium - RA	0.81		0.25	0.13	mg/L	5		6020	Total Recoverable
Total Dissolved Solids	40		5.0	3.4	mg/L	1		SM 2540C	Total/NA

Client Sample ID: FD-3(AP)

Lab Sample ID: 400-134140-28

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chloride	7.7		1.0	0.89	mg/L	1		300.0	Total/NA
Sulfate	17		1.0	0.70	mg/L	1		300.0	Total/NA
Barium	0.017		0.0025	0.00049	mg/L	5		6020	Total Recoverable
Chromium	0.0095		0.0025	0.0011	mg/L	5		6020	Total Recoverable
Cobalt	0.0034		0.0025	0.00040	mg/L	5		6020	Total Recoverable
Boron - RA	0.59		0.050	0.021	mg/L	5		6020	Total Recoverable
Calcium - RA	0.85		0.25	0.13	mg/L	5		6020	Total Recoverable
Total Dissolved Solids	52		5.0	3.4	mg/L	1		SM 2540C	Total/NA

Client Sample ID: SGWC-22

Lab Sample ID: 400-134140-29

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chloride	9.8		1.0	0.89	mg/L	1		300.0	Total/NA
Fluoride	0.10	J	0.20	0.082	mg/L	1		300.0	Total/NA
Sulfate	83		5.0	3.5	mg/L	5		300.0	Total/NA
Barium	0.091		0.0025	0.00049	mg/L	5		6020	Total Recoverable
Cobalt	0.0031		0.0025	0.00040	mg/L	5		6020	Total Recoverable
Boron - RA	0.38		0.050	0.021	mg/L	5		6020	Total Recoverable
Calcium - RA	27		0.25	0.13	mg/L	5		6020	Total Recoverable
Total Dissolved Solids	200		5.0	3.4	mg/L	1		SM 2540C	Total/NA

This Detection Summary does not include radiochemical test results.

TestAmerica Pensacola

Detection Summary

Client: Southern Company
Project/Site: CCR Plant Scherer

TestAmerica Job ID: 400-134140-1
SDG: Ash Pond

Client Sample ID: FB-3(AP)

Lab Sample ID: 400-134140-30

No Detections.

Client Sample ID: SGWC-21

Lab Sample ID: 400-134140-31

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chloride	7.4		1.0	0.89	mg/L	1		300.0	Total/NA
Fluoride	0.12	J	0.20	0.082	mg/L	1		300.0	Total/NA
Sulfate	77		5.0	3.5	mg/L	5		300.0	Total/NA
Barium	0.091		0.0025	0.00049	mg/L	5		6020	Total Recoverable
Cadmium	0.00039	J	0.0025	0.00034	mg/L	5		6020	Total Recoverable
Boron - RA	1.4		0.050	0.021	mg/L	5		6020	Total Recoverable
Calcium - RA	31		0.25	0.13	mg/L	5		6020	Total Recoverable
Total Dissolved Solids	310		5.0	3.4	mg/L	1		SM 2540C	Total/NA

Client Sample ID: SGWC-20

Lab Sample ID: 400-134140-32

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chloride	9.8		1.0	0.89	mg/L	1		300.0	Total/NA
Fluoride	0.28		0.20	0.082	mg/L	1		300.0	Total/NA
Sulfate	230		5.0	3.5	mg/L	5		300.0	Total/NA
Barium	0.034		0.0025	0.00049	mg/L	5		6020	Total Recoverable
Beryllium	0.00091	J	0.0025	0.00034	mg/L	5		6020	Total Recoverable
Cobalt	0.23		0.0025	0.00040	mg/L	5		6020	Total Recoverable
Lead	0.00035	J	0.0013	0.00035	mg/L	5		6020	Total Recoverable
Lithium	0.0047	J	0.0050	0.0032	mg/L	5		6020	Total Recoverable
Thallium	0.00014	J	0.00050	0.000085	mg/L	5		6020	Total Recoverable
Boron - DL	2.3		0.25	0.11	mg/L	25		6020	Total Recoverable
Calcium - RA	14		0.25	0.13	mg/L	5		6020	Total Recoverable
Total Dissolved Solids	350		5.0	3.4	mg/L	1		SM 2540C	Total/NA

Client Sample ID: SGWC-18

Lab Sample ID: 400-134140-33

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chloride	7.4		1.0	0.89	mg/L	1		300.0	Total/NA
Sulfate	450		10	7.0	mg/L	10		300.0	Total/NA
Arsenic	0.00086	J	0.0013	0.00046	mg/L	5		6020	Total Recoverable
Barium	0.013		0.0025	0.00049	mg/L	5		6020	Total Recoverable
Lithium	0.0034	J	0.0050	0.0032	mg/L	5		6020	Total Recoverable
Selenium	0.0055		0.0013	0.00024	mg/L	5		6020	Total Recoverable

This Detection Summary does not include radiochemical test results.

TestAmerica Pensacola

Detection Summary

Client: Southern Company
 Project/Site: CCR Plant Scherer

TestAmerica Job ID: 400-134140-1
 SDG: Ash Pond

Client Sample ID: SGWC-18 (Continued)

Lab Sample ID: 400-134140-33

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Thallium	0.00013	J	0.00050	0.000085	mg/L	5		6020	Total Recoverable
Boron - DL	3.9		0.25	0.11	mg/L	25		6020	Total Recoverable
Calcium - RA	51		0.25	0.13	mg/L	5		6020	Total Recoverable
Chromium - RA	0.0070		0.0025	0.0011	mg/L	5		6020	Total Recoverable
Cobalt - RA	0.11		0.0025	0.00040	mg/L	5		6020	Total Recoverable
Mercury	0.000084	J	0.00020	0.000070	mg/L	1		7470A	Total/NA
Total Dissolved Solids	600		5.0	3.4	mg/L	1		SM 2540C	Total/NA

Client Sample ID: EB-3(AP)

Lab Sample ID: 400-134140-34

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Boron - RA	0.092		0.050	0.021	mg/L	5		6020	Total Recoverable

This Detection Summary does not include radiochemical test results.

TestAmerica Pensacola

Method Summary

Client: Southern Company
Project/Site: CCR Plant Scherer

TestAmerica Job ID: 400-134140-1
SDG: Ash Pond

Method	Method Description	Protocol	Laboratory
300.0	Anions, Ion Chromatography	MCAWW	TAL PEN
6020	Metals (ICP/MS)	SW846	TAL PEN
7470A	Mercury (CVAA)	SW846	TAL PEN
SM 2540C	Solids, Total Dissolved (TDS)	SM	TAL PEN

Protocol References:

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:

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

Sample Summary

Client: Southern Company
Project/Site: CCR Plant Scherer

TestAmerica Job ID: 400-134140-1
SDG: Ash Pond

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
400-134140-1	SGWA-3	Water	02/14/17 11:15	02/16/17 08:46
400-134140-2	FB-1(AP)	Water	02/14/17 11:00	02/16/17 08:46
400-134140-3	SGWC-6	Water	02/14/17 13:45	02/16/17 08:46
400-134140-4	SGWC-8	Water	02/14/17 15:05	02/16/17 08:46
400-134140-5	SGWA-5	Water	02/14/17 09:50	02/16/17 08:46
400-134140-6	FD-1(AP)	Water	02/14/17 00:00	02/16/17 08:46
400-134140-7	SGWA-4	Water	02/14/17 11:46	02/16/17 08:46
400-134140-8	SGWC-7	Water	02/14/17 14:05	02/16/17 08:46
400-134140-9	SGWA-24	Water	02/14/17 10:41	02/16/17 08:46
400-134140-10	SGWA-1	Water	02/14/17 12:31	02/16/17 08:46
400-134140-11	SGWA-2	Water	02/14/17 13:56	02/16/17 08:46
400-134140-12	EB-1(AP)	Water	02/14/17 08:20	02/16/17 08:46
400-134140-13	SGWA-25	Water	02/14/17 15:10	02/16/17 08:46
400-134140-14	SGWC-10	Water	02/15/17 11:45	02/17/17 08:54
400-134140-15	EB-2(AP)	Water	02/15/17 10:10	02/17/17 08:54
400-134140-16	SGWC-12	Water	02/15/17 14:05	02/17/17 08:54
400-134140-17	FB-2(AP)	Water	02/15/17 13:45	02/17/17 08:54
400-134140-18	SGWC-11	Water	02/15/17 11:50	02/17/17 08:54
400-134140-19	SGWC-17	Water	02/15/17 13:24	02/17/17 08:54
400-134140-20	FD-2(AP)	Water	02/15/17 00:00	02/17/17 08:54
400-134140-21	SGWC-13	Water	02/15/17 11:59	02/17/17 08:54
400-134140-22	SGWC-14	Water	02/15/17 14:07	02/17/17 08:54
400-134140-23	SGWC-15	Water	02/15/17 16:00	02/17/17 08:54
400-134140-24	SGWC-23	Water	02/15/17 15:33	02/17/17 08:54
400-134140-25	SGWC-19	Water	02/16/17 11:56	02/18/17 08:31
400-134140-26	SGWC-9	Water	02/16/17 14:08	02/18/17 08:31
400-134140-27	SGWC-16	Water	02/16/17 10:10	02/18/17 08:31
400-134140-28	FD-3(AP)	Water	02/16/17 00:00	02/18/17 08:31
400-134140-29	SGWC-22	Water	02/16/17 10:22	02/18/17 08:31
400-134140-30	FB-3(AP)	Water	02/16/17 10:30	02/18/17 08:31
400-134140-31	SGWC-21	Water	02/16/17 11:48	02/18/17 08:31
400-134140-32	SGWC-20	Water	02/16/17 13:32	02/18/17 08:31
400-134140-33	SGWC-18	Water	02/16/17 15:11	02/18/17 08:31
400-134140-34	EB-3(AP)	Water	02/16/17 08:20	02/18/17 08:31

Client Sample Results

Client: Southern Company
Project/Site: CCR Plant Scherer

TestAmerica Job ID: 400-134140-1
SDG: Ash Pond

Client Sample ID: SGWA-3

Lab Sample ID: 400-134140-1

Date Collected: 02/14/17 11:15

Matrix: Water

Date Received: 02/16/17 08:46

Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	2.4		1.0	0.89	mg/L			02/24/17 20:48	1
Fluoride	<0.082		0.20	0.082	mg/L			02/24/17 20:48	1
Sulfate	1.9		1.0	0.70	mg/L			02/24/17 20:48	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0010		0.0025	0.0010	mg/L		02/21/17 11:30	02/22/17 12:09	5
Arsenic	<0.00046		0.0013	0.00046	mg/L		02/21/17 11:30	02/22/17 12:09	5
Barium	0.032		0.0025	0.00049	mg/L		02/21/17 11:30	02/22/17 12:09	5
Beryllium	<0.00034		0.0025	0.00034	mg/L		02/21/17 11:30	02/22/17 12:09	5
Boron	<0.021		0.050	0.021	mg/L		02/21/17 11:30	02/22/17 12:09	5
Cadmium	<0.00034		0.0025	0.00034	mg/L		02/21/17 11:30	02/22/17 12:09	5
Calcium	4.6		0.25	0.13	mg/L		02/21/17 11:30	02/22/17 12:09	5
Chromium	0.0076		0.0025	0.0011	mg/L		02/21/17 11:30	02/22/17 12:09	5
Cobalt	<0.00040		0.0025	0.00040	mg/L		02/21/17 11:30	02/22/17 12:09	5
Lead	<0.00035		0.0013	0.00035	mg/L		02/21/17 11:30	02/22/17 12:09	5
Lithium	<0.0032		0.0050	0.0032	mg/L		02/21/17 11:30	02/22/17 12:09	5
Molybdenum	0.0011 J		0.015	0.00085	mg/L		02/21/17 11:30	02/22/17 12:09	5
Selenium	<0.00024		0.0013	0.00024	mg/L		02/21/17 11:30	02/22/17 12:09	5
Thallium	<0.000085		0.00050	0.000085	mg/L		02/21/17 11:30	02/22/17 12:09	5

Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.000070		0.00020	0.000070	mg/L		02/26/17 13:13	02/27/17 10:59	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	32		5.0	3.4	mg/L			02/19/17 11:34	1

Client Sample Results

Client: Southern Company
Project/Site: CCR Plant Scherer

TestAmerica Job ID: 400-134140-1
SDG: Ash Pond

Client Sample ID: FB-1(AP)

Date Collected: 02/14/17 11:00

Date Received: 02/16/17 08:46

Lab Sample ID: 400-134140-2

Matrix: Water

Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<0.89		1.0	0.89	mg/L			02/22/17 17:37	1
Fluoride	<0.082		0.20	0.082	mg/L			02/22/17 17:37	1
Sulfate	<0.70		1.0	0.70	mg/L			02/22/17 17:37	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0010		0.0025	0.0010	mg/L		02/21/17 11:30	02/22/17 12:32	5
Arsenic	0.00062	J	0.0013	0.00046	mg/L		02/21/17 11:30	02/22/17 12:32	5
Barium	<0.00049		0.0025	0.00049	mg/L		02/21/17 11:30	02/22/17 12:32	5
Beryllium	<0.00034		0.0025	0.00034	mg/L		02/21/17 11:30	02/22/17 12:32	5
Boron	<0.021		0.050	0.021	mg/L		02/21/17 11:30	02/22/17 12:32	5
Cadmium	<0.00034		0.0025	0.00034	mg/L		02/21/17 11:30	02/22/17 12:32	5
Calcium	<0.13		0.25	0.13	mg/L		02/21/17 11:30	02/22/17 12:32	5
Chromium	<0.0011		0.0025	0.0011	mg/L		02/21/17 11:30	02/22/17 12:32	5
Cobalt	<0.00040		0.0025	0.00040	mg/L		02/21/17 11:30	02/22/17 12:32	5
Lead	<0.00035		0.0013	0.00035	mg/L		02/21/17 11:30	02/22/17 12:32	5
Lithium	<0.0032		0.0050	0.0032	mg/L		02/21/17 11:30	02/22/17 12:32	5
Molybdenum	0.0027	J	0.015	0.00085	mg/L		02/21/17 11:30	02/22/17 12:32	5
Selenium	0.00064	J	0.0013	0.00024	mg/L		02/21/17 11:30	02/22/17 12:32	5
Thallium	<0.000085		0.00050	0.000085	mg/L		02/21/17 11:30	02/22/17 12:32	5

Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.000070		0.00020	0.000070	mg/L		02/26/17 13:13	02/27/17 11:01	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	<3.4		5.0	3.4	mg/L			02/19/17 11:34	1

Client Sample Results

Client: Southern Company
Project/Site: CCR Plant Scherer

TestAmerica Job ID: 400-134140-1
SDG: Ash Pond

Client Sample ID: SGWC-6

Lab Sample ID: 400-134140-3

Date Collected: 02/14/17 13:45

Matrix: Water

Date Received: 02/16/17 08:46

Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	1.9		1.0	0.89	mg/L			02/22/17 18:22	1
Fluoride	0.20		0.20	0.082	mg/L			02/22/17 18:22	1
Sulfate	1.0		1.0	0.70	mg/L			02/22/17 18:22	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0010		0.0025	0.0010	mg/L		02/21/17 11:30	02/22/17 12:36	5
Arsenic	0.00060	J	0.0013	0.00046	mg/L		02/21/17 11:30	02/22/17 12:36	5
Barium	0.056		0.0025	0.00049	mg/L		02/21/17 11:30	02/22/17 12:36	5
Beryllium	<0.00034		0.0025	0.00034	mg/L		02/21/17 11:30	02/22/17 12:36	5
Boron	<0.021		0.050	0.021	mg/L		02/21/17 11:30	02/22/17 12:36	5
Cadmium	<0.00034		0.0025	0.00034	mg/L		02/21/17 11:30	02/22/17 12:36	5
Calcium	7.2		0.25	0.13	mg/L		02/21/17 11:30	02/22/17 12:36	5
Chromium	<0.0011		0.0025	0.0011	mg/L		02/21/17 11:30	02/22/17 12:36	5
Cobalt	0.0022	J	0.0025	0.00040	mg/L		02/21/17 11:30	02/22/17 12:36	5
Lead	<0.00035		0.0013	0.00035	mg/L		02/21/17 11:30	02/22/17 12:36	5
Lithium	<0.0032		0.0050	0.0032	mg/L		02/21/17 11:30	02/22/17 12:36	5
Molybdenum	<0.00085		0.015	0.00085	mg/L		02/21/17 11:30	02/22/17 12:36	5
Selenium	<0.00024		0.0013	0.00024	mg/L		02/21/17 11:30	02/22/17 12:36	5
Thallium	<0.000085		0.00050	0.000085	mg/L		02/21/17 11:30	02/22/17 12:36	5

Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.000070		0.00020	0.000070	mg/L		02/26/17 13:13	02/27/17 11:06	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	54		5.0	3.4	mg/L			02/19/17 11:34	1

Client Sample Results

Client: Southern Company
Project/Site: CCR Plant Scherer

TestAmerica Job ID: 400-134140-1
SDG: Ash Pond

Client Sample ID: SGWC-8

Lab Sample ID: 400-134140-4

Date Collected: 02/14/17 15:05

Matrix: Water

Date Received: 02/16/17 08:46

Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	12		1.0	0.89	mg/L			02/22/17 18:45	1
Fluoride	0.39		0.20	0.082	mg/L			02/22/17 18:45	1
Sulfate	73		5.0	3.5	mg/L			02/25/17 04:24	5

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0010		0.0025	0.0010	mg/L		02/21/17 11:30	02/22/17 12:59	5
Arsenic	0.00050	J	0.0013	0.00046	mg/L		02/21/17 11:30	02/22/17 12:59	5
Barium	0.18		0.0025	0.00049	mg/L		02/21/17 11:30	02/22/17 12:59	5
Beryllium	<0.00034		0.0025	0.00034	mg/L		02/21/17 11:30	02/22/17 12:59	5
Boron	0.063		0.050	0.021	mg/L		02/21/17 11:30	02/22/17 12:59	5
Cadmium	<0.00034		0.0025	0.00034	mg/L		02/21/17 11:30	02/22/17 12:59	5
Calcium	49		0.25	0.13	mg/L		02/21/17 11:30	02/22/17 12:59	5
Chromium	<0.0011		0.0025	0.0011	mg/L		02/21/17 11:30	02/22/17 12:59	5
Cobalt	<0.00040		0.0025	0.00040	mg/L		02/21/17 11:30	02/22/17 12:59	5
Lead	<0.00035		0.0013	0.00035	mg/L		02/21/17 11:30	02/22/17 12:59	5
Lithium	<0.0032		0.0050	0.0032	mg/L		02/21/17 11:30	02/22/17 12:59	5
Molybdenum	<0.00085		0.015	0.00085	mg/L		02/21/17 11:30	02/22/17 12:59	5
Selenium	<0.00024		0.0013	0.00024	mg/L		02/21/17 11:30	02/22/17 12:59	5
Thallium	<0.000085		0.00050	0.000085	mg/L		02/21/17 11:30	02/22/17 12:59	5

Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.000070		0.00020	0.000070	mg/L		02/26/17 13:13	02/27/17 11:08	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	370		5.0	3.4	mg/L			02/19/17 11:34	1

Client Sample Results

Client: Southern Company
Project/Site: CCR Plant Scherer

TestAmerica Job ID: 400-134140-1
SDG: Ash Pond

Client Sample ID: SGWA-5

Date Collected: 02/14/17 09:50

Date Received: 02/16/17 08:46

Lab Sample ID: 400-134140-5

Matrix: Water

Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	1.8		1.0	0.89	mg/L			02/22/17 19:08	1
Fluoride	<0.082		0.20	0.082	mg/L			02/22/17 19:08	1
Sulfate	<0.70		1.0	0.70	mg/L			02/22/17 19:08	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0010		0.0025	0.0010	mg/L		02/21/17 11:30	02/22/17 13:06	5
Arsenic	<0.00046		0.0013	0.00046	mg/L		02/21/17 11:30	02/22/17 13:06	5
Barium	0.010		0.0025	0.00049	mg/L		02/21/17 11:30	02/22/17 13:06	5
Beryllium	<0.00034		0.0025	0.00034	mg/L		02/21/17 11:30	02/22/17 13:06	5
Boron	<0.021		0.050	0.021	mg/L		02/21/17 11:30	02/22/17 13:06	5
Cadmium	<0.00034		0.0025	0.00034	mg/L		02/21/17 11:30	02/22/17 13:06	5
Calcium	1.4		0.25	0.13	mg/L		02/21/17 11:30	02/22/17 13:06	5
Chromium	<0.0011		0.0025	0.0011	mg/L		02/21/17 11:30	02/22/17 13:06	5
Cobalt	<0.00040		0.0025	0.00040	mg/L		02/21/17 11:30	02/22/17 13:06	5
Lead	<0.00035		0.0013	0.00035	mg/L		02/21/17 11:30	02/22/17 13:06	5
Lithium	<0.0032		0.0050	0.0032	mg/L		02/21/17 11:30	02/22/17 13:06	5
Molybdenum	<0.00085		0.015	0.00085	mg/L		02/21/17 11:30	02/22/17 13:06	5
Selenium	<0.00024		0.0013	0.00024	mg/L		02/21/17 11:30	02/22/17 13:06	5
Thallium	<0.000085		0.00050	0.000085	mg/L		02/21/17 11:30	02/22/17 13:06	5

Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.000070		0.00020	0.000070	mg/L		02/26/17 13:13	02/27/17 11:09	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	52		5.0	3.4	mg/L			02/19/17 11:34	1

Client Sample Results

Client: Southern Company
Project/Site: CCR Plant Scherer

TestAmerica Job ID: 400-134140-1
SDG: Ash Pond

Client Sample ID: FD-1(AP)

Lab Sample ID: 400-134140-6

Date Collected: 02/14/17 00:00

Matrix: Water

Date Received: 02/16/17 08:46

Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	1.8		1.0	0.89	mg/L			02/22/17 20:16	1
Fluoride	<0.082		0.20	0.082	mg/L			02/22/17 20:16	1
Sulfate	<0.70		1.0	0.70	mg/L			02/22/17 20:16	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0010		0.0025	0.0010	mg/L		02/21/17 11:30	02/22/17 13:11	5
Arsenic	0.00050	J	0.0013	0.00046	mg/L		02/21/17 11:30	02/22/17 13:11	5
Barium	0.0097		0.0025	0.00049	mg/L		02/21/17 11:30	02/22/17 13:11	5
Beryllium	<0.00034		0.0025	0.00034	mg/L		02/21/17 11:30	02/22/17 13:11	5
Boron	<0.021		0.050	0.021	mg/L		02/21/17 11:30	02/22/17 13:11	5
Cadmium	<0.00034		0.0025	0.00034	mg/L		02/21/17 11:30	02/22/17 13:11	5
Calcium	1.5		0.25	0.13	mg/L		02/21/17 11:30	02/22/17 13:11	5
Chromium	<0.0011		0.0025	0.0011	mg/L		02/21/17 11:30	02/22/17 13:11	5
Cobalt	<0.00040		0.0025	0.00040	mg/L		02/21/17 11:30	02/22/17 13:11	5
Lead	<0.00035		0.0013	0.00035	mg/L		02/21/17 11:30	02/22/17 13:11	5
Lithium	<0.0032		0.0050	0.0032	mg/L		02/21/17 11:30	02/22/17 13:11	5
Molybdenum	<0.00085		0.015	0.00085	mg/L		02/21/17 11:30	02/22/17 13:11	5
Selenium	<0.00024		0.0013	0.00024	mg/L		02/21/17 11:30	02/22/17 13:11	5
Thallium	<0.000085		0.00050	0.000085	mg/L		02/21/17 11:30	02/22/17 13:11	5

Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.000070		0.00020	0.000070	mg/L		02/26/17 13:13	02/27/17 12:11	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	54		5.0	3.4	mg/L			02/19/17 11:34	1

Client Sample Results

Client: Southern Company
Project/Site: CCR Plant Scherer

TestAmerica Job ID: 400-134140-1
SDG: Ash Pond

Client Sample ID: SGWA-4

Lab Sample ID: 400-134140-7

Date Collected: 02/14/17 11:46

Matrix: Water

Date Received: 02/16/17 08:46

Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	1.3		1.0	0.89	mg/L			02/22/17 20:39	1
Fluoride	0.10	J	0.20	0.082	mg/L			02/22/17 20:39	1
Sulfate	1.1		1.0	0.70	mg/L			02/22/17 20:39	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0010		0.0025	0.0010	mg/L		02/21/17 11:30	02/22/17 13:15	5
Arsenic	<0.00046		0.0013	0.00046	mg/L		02/21/17 11:30	02/22/17 13:15	5
Barium	0.050		0.0025	0.00049	mg/L		02/21/17 11:30	02/22/17 13:15	5
Beryllium	<0.00034		0.0025	0.00034	mg/L		02/21/17 11:30	02/22/17 13:15	5
Boron	<0.021		0.050	0.021	mg/L		02/21/17 11:30	02/22/17 13:15	5
Cadmium	<0.00034		0.0025	0.00034	mg/L		02/21/17 11:30	02/22/17 13:15	5
Calcium	17		0.25	0.13	mg/L		02/21/17 11:30	02/22/17 13:15	5
Chromium	0.0046		0.0025	0.0011	mg/L		02/21/17 11:30	02/22/17 13:15	5
Cobalt	<0.00040		0.0025	0.00040	mg/L		02/21/17 11:30	02/22/17 13:15	5
Lead	<0.00035		0.0013	0.00035	mg/L		02/21/17 11:30	02/22/17 13:15	5
Lithium	<0.0032		0.0050	0.0032	mg/L		02/21/17 11:30	02/22/17 13:15	5
Molybdenum	<0.00085		0.015	0.00085	mg/L		02/21/17 11:30	02/22/17 13:15	5
Selenium	<0.00024		0.0013	0.00024	mg/L		02/21/17 11:30	02/22/17 13:15	5
Thallium	<0.000085		0.00050	0.000085	mg/L		02/21/17 11:30	02/22/17 13:15	5

Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.000070		0.00020	0.000070	mg/L		02/26/17 13:13	02/27/17 12:13	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	78		5.0	3.4	mg/L			02/19/17 11:34	1

Client Sample Results

Client: Southern Company
Project/Site: CCR Plant Scherer

TestAmerica Job ID: 400-134140-1
SDG: Ash Pond

Client Sample ID: SGWC-7

Lab Sample ID: 400-134140-8

Date Collected: 02/14/17 14:05

Matrix: Water

Date Received: 02/16/17 08:46

Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	5.8		1.0	0.89	mg/L			02/22/17 21:02	1
Fluoride	0.17	J	0.20	0.082	mg/L			02/22/17 21:02	1
Sulfate	21		1.0	0.70	mg/L			02/22/17 21:02	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0010		0.0025	0.0010	mg/L		02/21/17 11:30	02/22/17 13:20	5
Arsenic	0.00059	J	0.0013	0.00046	mg/L		02/21/17 11:30	02/22/17 13:20	5
Barium	0.30		0.0025	0.00049	mg/L		02/21/17 11:30	02/22/17 13:20	5
Beryllium	<0.00034		0.0025	0.00034	mg/L		02/21/17 11:30	02/22/17 13:20	5
Boron	0.031	J	0.050	0.021	mg/L		02/21/17 11:30	02/22/17 13:20	5
Cadmium	<0.00034		0.0025	0.00034	mg/L		02/21/17 11:30	02/22/17 13:20	5
Calcium	24		0.25	0.13	mg/L		02/21/17 11:30	02/22/17 13:20	5
Chromium	<0.0011		0.0025	0.0011	mg/L		02/21/17 11:30	02/22/17 13:20	5
Cobalt	0.0093		0.0025	0.00040	mg/L		02/21/17 11:30	02/22/17 13:20	5
Lead	<0.00035		0.0013	0.00035	mg/L		02/21/17 11:30	02/22/17 13:20	5
Lithium	0.0043	J	0.0050	0.0032	mg/L		02/21/17 11:30	02/22/17 13:20	5
Molybdenum	<0.00085		0.015	0.00085	mg/L		02/21/17 11:30	02/22/17 13:20	5
Selenium	<0.00024		0.0013	0.00024	mg/L		02/21/17 11:30	02/22/17 13:20	5
Thallium	<0.000085		0.00050	0.000085	mg/L		02/21/17 11:30	02/22/17 13:20	5

Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.000070		0.00020	0.000070	mg/L		02/26/17 13:13	02/27/17 12:14	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	210		5.0	3.4	mg/L			02/19/17 11:34	1

Client Sample Results

Client: Southern Company
Project/Site: CCR Plant Scherer

TestAmerica Job ID: 400-134140-1
SDG: Ash Pond

Client Sample ID: SGWA-24

Date Collected: 02/14/17 10:41

Date Received: 02/16/17 08:46

Lab Sample ID: 400-134140-9

Matrix: Water

Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	1.9		1.0	0.89	mg/L			02/22/17 21:25	1
Fluoride	<0.082		0.20	0.082	mg/L			02/22/17 21:25	1
Sulfate	<0.70		1.0	0.70	mg/L			02/22/17 21:25	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0010		0.0025	0.0010	mg/L		02/21/17 11:30	02/22/17 13:24	5
Arsenic	0.00057	J	0.0013	0.00046	mg/L		02/21/17 11:30	02/22/17 13:24	5
Barium	0.021		0.0025	0.00049	mg/L		02/21/17 11:30	02/22/17 13:24	5
Beryllium	<0.00034		0.0025	0.00034	mg/L		02/21/17 11:30	02/22/17 13:24	5
Boron	<0.021		0.050	0.021	mg/L		02/21/17 11:30	02/22/17 13:24	5
Cadmium	<0.00034		0.0025	0.00034	mg/L		02/21/17 11:30	02/22/17 13:24	5
Calcium	13		0.25	0.13	mg/L		02/21/17 11:30	02/22/17 13:24	5
Chromium	0.0037		0.0025	0.0011	mg/L		02/21/17 11:30	02/22/17 13:24	5
Cobalt	<0.00040		0.0025	0.00040	mg/L		02/21/17 11:30	02/22/17 13:24	5
Lead	<0.00035		0.0013	0.00035	mg/L		02/21/17 11:30	02/22/17 13:24	5
Lithium	<0.0032		0.0050	0.0032	mg/L		02/21/17 11:30	02/22/17 13:24	5
Molybdenum	<0.00085		0.015	0.00085	mg/L		02/21/17 11:30	02/22/17 13:24	5
Selenium	<0.00024		0.0013	0.00024	mg/L		02/21/17 11:30	02/22/17 13:24	5
Thallium	<0.000085		0.00050	0.000085	mg/L		02/21/17 11:30	02/22/17 13:24	5

Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.000070		0.00020	0.000070	mg/L		02/26/17 13:13	02/27/17 12:15	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	86		5.0	3.4	mg/L			02/19/17 11:34	1

Client Sample Results

Client: Southern Company
Project/Site: CCR Plant Scherer

TestAmerica Job ID: 400-134140-1
SDG: Ash Pond

Client Sample ID: SGWA-1

Lab Sample ID: 400-134140-10

Date Collected: 02/14/17 12:31

Matrix: Water

Date Received: 02/16/17 08:46

Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	2.0		1.0	0.89	mg/L			02/22/17 21:47	1
Fluoride	<0.082		0.20	0.082	mg/L			02/22/17 21:47	1
Sulfate	0.76	J	1.0	0.70	mg/L			02/22/17 21:47	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0010		0.0025	0.0010	mg/L		02/21/17 11:30	02/22/17 13:29	5
Arsenic	0.00055	J	0.0013	0.00046	mg/L		02/21/17 11:30	02/22/17 13:29	5
Barium	0.046		0.0025	0.00049	mg/L		02/21/17 11:30	02/22/17 13:29	5
Beryllium	<0.00034		0.0025	0.00034	mg/L		02/21/17 11:30	02/22/17 13:29	5
Boron	<0.021		0.050	0.021	mg/L		02/21/17 11:30	02/22/17 13:29	5
Cadmium	<0.00034		0.0025	0.00034	mg/L		02/21/17 11:30	02/22/17 13:29	5
Calcium	1.8		0.25	0.13	mg/L		02/21/17 11:30	02/22/17 13:29	5
Chromium	<0.0011		0.0025	0.0011	mg/L		02/21/17 11:30	02/22/17 13:29	5
Cobalt	0.011		0.0025	0.00040	mg/L		02/21/17 11:30	02/22/17 13:29	5
Lead	<0.00035		0.0013	0.00035	mg/L		02/21/17 11:30	02/22/17 13:29	5
Lithium	<0.0032		0.0050	0.0032	mg/L		02/21/17 11:30	02/22/17 13:29	5
Molybdenum	<0.00085		0.015	0.00085	mg/L		02/21/17 11:30	02/22/17 13:29	5
Selenium	<0.00024		0.0013	0.00024	mg/L		02/21/17 11:30	02/22/17 13:29	5
Thallium	<0.000085		0.00050	0.000085	mg/L		02/21/17 11:30	02/22/17 13:29	5

Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.000070		0.00020	0.000070	mg/L		02/26/17 13:13	02/27/17 12:16	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	18		5.0	3.4	mg/L			02/19/17 11:34	1

Client Sample Results

Client: Southern Company
Project/Site: CCR Plant Scherer

TestAmerica Job ID: 400-134140-1
SDG: Ash Pond

Client Sample ID: SGWA-2

Lab Sample ID: 400-134140-11

Date Collected: 02/14/17 13:56

Matrix: Water

Date Received: 02/16/17 08:46

Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	1.5		1.0	0.89	mg/L			02/22/17 22:10	1
Fluoride	<0.082		0.20	0.082	mg/L			02/22/17 22:10	1
Sulfate	<0.70		1.0	0.70	mg/L			02/22/17 22:10	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0010		0.0025	0.0010	mg/L		02/21/17 11:30	02/22/17 13:33	5
Arsenic	0.00046	J	0.0013	0.00046	mg/L		02/21/17 11:30	02/22/17 13:33	5
Barium	0.035		0.0025	0.00049	mg/L		02/21/17 11:30	02/22/17 13:33	5
Beryllium	<0.00034		0.0025	0.00034	mg/L		02/21/17 11:30	02/22/17 13:33	5
Boron	<0.021		0.050	0.021	mg/L		02/21/17 11:30	02/22/17 13:33	5
Cadmium	<0.00034		0.0025	0.00034	mg/L		02/21/17 11:30	02/22/17 13:33	5
Calcium	11		0.25	0.13	mg/L		02/21/17 11:30	02/22/17 13:33	5
Chromium	0.014		0.0025	0.0011	mg/L		02/21/17 11:30	02/22/17 13:33	5
Cobalt	<0.00040		0.0025	0.00040	mg/L		02/21/17 11:30	02/22/17 13:33	5
Lead	<0.00035		0.0013	0.00035	mg/L		02/21/17 11:30	02/22/17 13:33	5
Lithium	<0.0032		0.0050	0.0032	mg/L		02/21/17 11:30	02/22/17 13:33	5
Molybdenum	<0.00085		0.015	0.00085	mg/L		02/21/17 11:30	02/22/17 13:33	5
Selenium	<0.00024		0.0013	0.00024	mg/L		02/21/17 11:30	02/22/17 13:33	5
Thallium	<0.000085		0.00050	0.000085	mg/L		02/21/17 11:30	02/22/17 13:33	5

Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.000070		0.00020	0.000070	mg/L		02/26/17 13:13	02/27/17 12:17	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	76		5.0	3.4	mg/L			02/19/17 11:34	1

Client Sample Results

Client: Southern Company
Project/Site: CCR Plant Scherer

TestAmerica Job ID: 400-134140-1
SDG: Ash Pond

Client Sample ID: EB-1(AP)

Date Collected: 02/14/17 08:20

Date Received: 02/16/17 08:46

Lab Sample ID: 400-134140-12

Matrix: Water

Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<0.89		1.0	0.89	mg/L			02/24/17 21:11	1
Fluoride	<0.082		0.20	0.082	mg/L			02/24/17 21:11	1
Sulfate	<0.70		1.0	0.70	mg/L			02/24/17 21:11	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0010		0.0025	0.0010	mg/L		02/21/17 11:30	02/22/17 13:37	5
Arsenic	<0.00046		0.0013	0.00046	mg/L		02/21/17 11:30	02/22/17 13:37	5
Barium	<0.00049		0.0025	0.00049	mg/L		02/21/17 11:30	02/22/17 13:37	5
Beryllium	<0.00034		0.0025	0.00034	mg/L		02/21/17 11:30	02/22/17 13:37	5
Boron	<0.021		0.050	0.021	mg/L		02/21/17 11:30	02/22/17 13:37	5
Cadmium	<0.00034		0.0025	0.00034	mg/L		02/21/17 11:30	02/22/17 13:37	5
Calcium	<0.13		0.25	0.13	mg/L		02/21/17 11:30	02/22/17 13:37	5
Chromium	<0.0011		0.0025	0.0011	mg/L		02/21/17 11:30	02/22/17 13:37	5
Cobalt	<0.00040		0.0025	0.00040	mg/L		02/21/17 11:30	02/22/17 13:37	5
Lead	<0.00035		0.0013	0.00035	mg/L		02/21/17 11:30	02/22/17 13:37	5
Lithium	<0.0032		0.0050	0.0032	mg/L		02/21/17 11:30	02/22/17 13:37	5
Molybdenum	<0.00085		0.015	0.00085	mg/L		02/21/17 11:30	02/22/17 13:37	5
Selenium	<0.00024		0.0013	0.00024	mg/L		02/21/17 11:30	02/22/17 13:37	5
Thallium	<0.000085		0.00050	0.000085	mg/L		02/21/17 11:30	02/22/17 13:37	5

Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.000070		0.00020	0.000070	mg/L		02/26/17 13:13	02/27/17 12:19	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	<3.4		5.0	3.4	mg/L			02/20/17 10:44	1

Client Sample Results

Client: Southern Company
Project/Site: CCR Plant Scherer

TestAmerica Job ID: 400-134140-1
SDG: Ash Pond

Client Sample ID: SGWA-25

Date Collected: 02/14/17 15:10

Date Received: 02/16/17 08:46

Lab Sample ID: 400-134140-13

Matrix: Water

Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	1.5		1.0	0.89	mg/L			02/24/17 21:34	1
Fluoride	<0.082		0.20	0.082	mg/L			02/24/17 21:34	1
Sulfate	<0.70		1.0	0.70	mg/L			02/24/17 21:34	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0010		0.0025	0.0010	mg/L		02/21/17 11:30	02/22/17 13:42	5
Arsenic	0.0015		0.0013	0.00046	mg/L		02/21/17 11:30	02/22/17 13:42	5
Barium	0.018		0.0025	0.00049	mg/L		02/21/17 11:30	02/22/17 13:42	5
Beryllium	<0.00034		0.0025	0.00034	mg/L		02/21/17 11:30	02/22/17 13:42	5
Boron	<0.021		0.050	0.021	mg/L		02/21/17 11:30	02/22/17 13:42	5
Cadmium	<0.00034		0.0025	0.00034	mg/L		02/21/17 11:30	02/22/17 13:42	5
Calcium	12		0.25	0.13	mg/L		02/21/17 11:30	02/22/17 13:42	5
Chromium	<0.0011		0.0025	0.0011	mg/L		02/21/17 11:30	02/22/17 13:42	5
Cobalt	0.018		0.0025	0.00040	mg/L		02/21/17 11:30	02/22/17 13:42	5
Lead	<0.00035		0.0013	0.00035	mg/L		02/21/17 11:30	02/22/17 13:42	5
Lithium	<0.0032		0.0050	0.0032	mg/L		02/21/17 11:30	02/22/17 13:42	5
Molybdenum	<0.00085		0.015	0.00085	mg/L		02/21/17 11:30	02/22/17 13:42	5
Selenium	<0.00024		0.0013	0.00024	mg/L		02/21/17 11:30	02/22/17 13:42	5
Thallium	<0.000085		0.00050	0.000085	mg/L		02/21/17 11:30	02/22/17 13:42	5

Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.000070		0.00020	0.000070	mg/L		02/26/17 13:13	02/27/17 12:20	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	98		5.0	3.4	mg/L			02/20/17 10:44	1

Client Sample Results

Client: Southern Company
Project/Site: CCR Plant Scherer

TestAmerica Job ID: 400-134140-1
SDG: Ash Pond

Client Sample ID: SGWC-10

Lab Sample ID: 400-134140-14

Date Collected: 02/15/17 11:45

Matrix: Water

Date Received: 02/17/17 08:54

Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	9.0		1.0	0.89	mg/L			02/24/17 22:42	1
Fluoride	<0.082		0.20	0.082	mg/L			02/24/17 22:42	1
Sulfate	1.3		1.0	0.70	mg/L			02/24/17 22:42	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0010		0.0025	0.0010	mg/L		02/21/17 11:30	02/22/17 14:04	5
Arsenic	0.00050	J	0.0013	0.00046	mg/L		02/21/17 11:30	02/22/17 14:04	5
Barium	0.025		0.0025	0.00049	mg/L		02/21/17 11:30	02/22/17 14:04	5
Beryllium	<0.00034		0.0025	0.00034	mg/L		02/21/17 11:30	02/22/17 14:04	5
Boron	0.035	J	0.050	0.021	mg/L		02/21/17 11:30	02/22/17 14:04	5
Cadmium	<0.00034		0.0025	0.00034	mg/L		02/21/17 11:30	02/22/17 14:04	5
Calcium	1.5		0.25	0.13	mg/L		02/21/17 11:30	02/22/17 14:04	5
Chromium	<0.0011		0.0025	0.0011	mg/L		02/21/17 11:30	02/22/17 14:04	5
Cobalt	0.038		0.0025	0.00040	mg/L		02/21/17 11:30	02/22/17 14:04	5
Lead	<0.00035		0.0013	0.00035	mg/L		02/21/17 11:30	02/22/17 14:04	5
Lithium	<0.0032		0.0050	0.0032	mg/L		02/21/17 11:30	02/22/17 14:04	5
Molybdenum	<0.00085		0.015	0.00085	mg/L		02/21/17 11:30	02/22/17 14:04	5
Selenium	<0.00024		0.0013	0.00024	mg/L		02/21/17 11:30	02/22/17 14:04	5
Thallium	<0.000085		0.00050	0.000085	mg/L		02/21/17 11:30	02/22/17 14:04	5

Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.000070		0.00020	0.000070	mg/L		02/26/17 13:13	02/27/17 12:21	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	18		5.0	3.4	mg/L			02/21/17 16:12	1

Client Sample Results

Client: Southern Company
Project/Site: CCR Plant Scherer

TestAmerica Job ID: 400-134140-1
SDG: Ash Pond

Client Sample ID: EB-2(AP)

Date Collected: 02/15/17 10:10

Date Received: 02/17/17 08:54

Lab Sample ID: 400-134140-15

Matrix: Water

Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<0.89		1.0	0.89	mg/L			02/24/17 23:51	1
Fluoride	<0.082		0.20	0.082	mg/L			02/24/17 23:51	1
Sulfate	<0.70		1.0	0.70	mg/L			02/24/17 23:51	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0010		0.0025	0.0010	mg/L		02/21/17 11:30	02/22/17 14:09	5
Arsenic	<0.00046		0.0013	0.00046	mg/L		02/21/17 11:30	02/22/17 14:09	5
Barium	<0.00049		0.0025	0.00049	mg/L		02/21/17 11:30	02/22/17 14:09	5
Beryllium	<0.00034		0.0025	0.00034	mg/L		02/21/17 11:30	02/22/17 14:09	5
Boron	<0.021		0.050	0.021	mg/L		02/21/17 11:30	02/22/17 14:09	5
Cadmium	<0.00034		0.0025	0.00034	mg/L		02/21/17 11:30	02/22/17 14:09	5
Calcium	<0.13		0.25	0.13	mg/L		02/21/17 11:30	02/22/17 14:09	5
Chromium	<0.0011		0.0025	0.0011	mg/L		02/21/17 11:30	02/22/17 14:09	5
Cobalt	<0.00040		0.0025	0.00040	mg/L		02/21/17 11:30	02/22/17 14:09	5
Lead	<0.00035		0.0013	0.00035	mg/L		02/21/17 11:30	02/22/17 14:09	5
Lithium	<0.0032		0.0050	0.0032	mg/L		02/21/17 11:30	02/22/17 14:09	5
Molybdenum	<0.00085		0.015	0.00085	mg/L		02/21/17 11:30	02/22/17 14:09	5
Selenium	<0.00024		0.0013	0.00024	mg/L		02/21/17 11:30	02/22/17 14:09	5
Thallium	<0.000085		0.00050	0.000085	mg/L		02/21/17 11:30	02/22/17 14:09	5

Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.000070		0.00020	0.000070	mg/L		02/26/17 13:13	02/27/17 12:22	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	<3.4		5.0	3.4	mg/L			02/20/17 10:44	1

Client Sample Results

Client: Southern Company
Project/Site: CCR Plant Scherer

TestAmerica Job ID: 400-134140-1
SDG: Ash Pond

Client Sample ID: SGWC-12

Lab Sample ID: 400-134140-16

Date Collected: 02/15/17 14:05

Matrix: Water

Date Received: 02/17/17 08:54

Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	8.7		1.0	0.89	mg/L			02/25/17 00:13	1
Fluoride	0.13	J	0.20	0.082	mg/L			02/25/17 00:13	1
Sulfate	33		1.0	0.70	mg/L			02/25/17 00:13	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0010		0.0025	0.0010	mg/L		02/21/17 11:30	02/22/17 14:13	5
Arsenic	0.00076	J	0.0013	0.00046	mg/L		02/21/17 11:30	02/22/17 14:13	5
Barium	0.036		0.0025	0.00049	mg/L		02/21/17 11:30	02/22/17 14:13	5
Beryllium	<0.00034		0.0025	0.00034	mg/L		02/21/17 11:30	02/22/17 14:13	5
Boron	<0.021		0.050	0.021	mg/L		02/21/17 11:30	02/22/17 14:13	5
Cadmium	<0.00034		0.0025	0.00034	mg/L		02/21/17 11:30	02/22/17 14:13	5
Calcium	23		0.25	0.13	mg/L		02/21/17 11:30	02/22/17 14:13	5
Chromium	<0.0011		0.0025	0.0011	mg/L		02/21/17 11:30	02/22/17 14:13	5
Cobalt	0.0040		0.0025	0.00040	mg/L		02/21/17 11:30	02/22/17 14:13	5
Lead	<0.00035		0.0013	0.00035	mg/L		02/21/17 11:30	02/22/17 14:13	5
Lithium	<0.0032		0.0050	0.0032	mg/L		02/21/17 11:30	02/22/17 14:13	5
Molybdenum	<0.00085		0.015	0.00085	mg/L		02/21/17 11:30	02/22/17 14:13	5
Selenium	<0.00024		0.0013	0.00024	mg/L		02/21/17 11:30	02/22/17 14:13	5
Thallium	<0.000085		0.00050	0.000085	mg/L		02/21/17 11:30	02/22/17 14:13	5

Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.000070		0.00020	0.000070	mg/L		02/26/17 13:13	02/27/17 12:38	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	200		5.0	3.4	mg/L			02/20/17 10:44	1

Client Sample Results

Client: Southern Company
Project/Site: CCR Plant Scherer

TestAmerica Job ID: 400-134140-1
SDG: Ash Pond

Client Sample ID: FB-2(AP)

Lab Sample ID: 400-134140-17

Date Collected: 02/15/17 13:45

Matrix: Water

Date Received: 02/17/17 08:54

Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<0.89		1.0	0.89	mg/L			02/25/17 00:36	1
Fluoride	<0.082		0.20	0.082	mg/L			02/25/17 00:36	1
Sulfate	<0.70		1.0	0.70	mg/L			02/25/17 00:36	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0010		0.0025	0.0010	mg/L		02/21/17 11:30	02/22/17 14:18	5
Arsenic	<0.00046		0.0013	0.00046	mg/L		02/21/17 11:30	02/22/17 14:18	5
Barium	<0.00049		0.0025	0.00049	mg/L		02/21/17 11:30	02/22/17 14:18	5
Beryllium	<0.00034		0.0025	0.00034	mg/L		02/21/17 11:30	02/22/17 14:18	5
Boron	<0.021		0.050	0.021	mg/L		02/21/17 11:30	02/22/17 14:18	5
Cadmium	<0.00034		0.0025	0.00034	mg/L		02/21/17 11:30	02/22/17 14:18	5
Calcium	<0.13		0.25	0.13	mg/L		02/21/17 11:30	02/22/17 14:18	5
Chromium	<0.0011		0.0025	0.0011	mg/L		02/21/17 11:30	02/22/17 14:18	5
Cobalt	<0.00040		0.0025	0.00040	mg/L		02/21/17 11:30	02/22/17 14:18	5
Lead	<0.00035		0.0013	0.00035	mg/L		02/21/17 11:30	02/22/17 14:18	5
Lithium	<0.0032		0.0050	0.0032	mg/L		02/21/17 11:30	02/22/17 14:18	5
Molybdenum	<0.00085		0.015	0.00085	mg/L		02/21/17 11:30	02/22/17 14:18	5
Selenium	<0.00024		0.0013	0.00024	mg/L		02/21/17 11:30	02/22/17 14:18	5
Thallium	<0.000085		0.00050	0.000085	mg/L		02/21/17 11:30	02/22/17 14:18	5

Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.000070		0.00020	0.000070	mg/L		02/26/17 13:13	02/27/17 12:39	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	<3.4		5.0	3.4	mg/L			02/20/17 10:44	1

Client Sample Results

Client: Southern Company
Project/Site: CCR Plant Scherer

TestAmerica Job ID: 400-134140-1
SDG: Ash Pond

Client Sample ID: SGWC-11

Lab Sample ID: 400-134140-18

Date Collected: 02/15/17 11:50

Matrix: Water

Date Received: 02/17/17 08:54

Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	7.2		1.0	0.89	mg/L			02/25/17 00:59	1
Fluoride	<0.082		0.20	0.082	mg/L			02/25/17 00:59	1
Sulfate	1.2		1.0	0.70	mg/L			02/25/17 00:59	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0010		0.0025	0.0010	mg/L		02/21/17 11:30	02/22/17 14:22	5
Arsenic	0.0011	J	0.0013	0.00046	mg/L		02/21/17 11:30	02/22/17 14:22	5
Barium	0.036		0.0025	0.00049	mg/L		02/21/17 11:30	02/22/17 14:22	5
Beryllium	<0.00034		0.0025	0.00034	mg/L		02/21/17 11:30	02/22/17 14:22	5
Boron	0.28		0.050	0.021	mg/L		02/21/17 11:30	02/22/17 14:22	5
Cadmium	<0.00034		0.0025	0.00034	mg/L		02/21/17 11:30	02/22/17 14:22	5
Calcium	1.9		0.25	0.13	mg/L		02/21/17 11:30	02/22/17 14:22	5
Chromium	<0.0011		0.0025	0.0011	mg/L		02/21/17 11:30	02/22/17 14:22	5
Cobalt	0.029		0.0025	0.00040	mg/L		02/21/17 11:30	02/22/17 14:22	5
Lead	<0.00035		0.0013	0.00035	mg/L		02/21/17 11:30	02/22/17 14:22	5
Lithium	<0.0032		0.0050	0.0032	mg/L		02/21/17 11:30	02/22/17 14:22	5
Molybdenum	<0.00085		0.015	0.00085	mg/L		02/21/17 11:30	02/22/17 14:22	5
Selenium	<0.00024		0.0013	0.00024	mg/L		02/21/17 11:30	02/22/17 14:22	5
Thallium	<0.000085		0.00050	0.000085	mg/L		02/21/17 11:30	02/22/17 14:22	5

Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.000070		0.00020	0.000070	mg/L		02/26/17 13:13	02/27/17 12:40	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	34		5.0	3.4	mg/L			02/20/17 10:44	1

Client Sample Results

Client: Southern Company
Project/Site: CCR Plant Scherer

TestAmerica Job ID: 400-134140-1
SDG: Ash Pond

Client Sample ID: SGWC-17

Lab Sample ID: 400-134140-19

Date Collected: 02/15/17 13:24

Matrix: Water

Date Received: 02/17/17 08:54

Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	8.1		1.0	0.89	mg/L			02/25/17 01:22	1
Fluoride	0.089	J	0.20	0.082	mg/L			02/25/17 01:22	1
Sulfate	160		5.0	3.5	mg/L			02/25/17 04:47	5

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0010		0.0025	0.0010	mg/L		02/21/17 11:30	02/22/17 14:27	5
Arsenic	0.00059	J	0.0013	0.00046	mg/L		02/21/17 11:30	02/22/17 14:27	5
Barium	0.020		0.0025	0.00049	mg/L		02/21/17 11:30	02/22/17 14:27	5
Beryllium	<0.00034		0.0025	0.00034	mg/L		02/21/17 11:30	02/22/17 14:27	5
Boron	0.38		0.050	0.021	mg/L		02/21/17 11:30	02/22/17 14:27	5
Cadmium	<0.00034		0.0025	0.00034	mg/L		02/21/17 11:30	02/22/17 14:27	5
Calcium	44		0.25	0.13	mg/L		02/21/17 11:30	02/22/17 14:27	5
Chromium	0.0044		0.0025	0.0011	mg/L		02/21/17 11:30	02/22/17 14:27	5
Cobalt	0.00069	J	0.0025	0.00040	mg/L		02/21/17 11:30	02/22/17 14:27	5
Lead	<0.00035		0.0013	0.00035	mg/L		02/21/17 11:30	02/22/17 14:27	5
Lithium	<0.0032		0.0050	0.0032	mg/L		02/21/17 11:30	02/22/17 14:27	5
Molybdenum	<0.00085		0.015	0.00085	mg/L		02/21/17 11:30	02/22/17 14:27	5
Selenium	<0.00024		0.0013	0.00024	mg/L		02/21/17 11:30	02/22/17 14:27	5
Thallium	<0.000085		0.00050	0.000085	mg/L		02/21/17 11:30	02/22/17 14:27	5

Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.000070		0.00020	0.000070	mg/L		02/26/17 13:13	02/27/17 12:41	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	350		5.0	3.4	mg/L			02/20/17 10:44	1

Client Sample Results

Client: Southern Company
Project/Site: CCR Plant Scherer

TestAmerica Job ID: 400-134140-1
SDG: Ash Pond

Client Sample ID: FD-2(AP)

Lab Sample ID: 400-134140-20

Date Collected: 02/15/17 00:00

Matrix: Water

Date Received: 02/17/17 08:54

Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	8.1		1.0	0.89	mg/L			02/25/17 01:45	1
Fluoride	0.089	J	0.20	0.082	mg/L			02/25/17 01:45	1
Sulfate	160		5.0	3.5	mg/L			02/25/17 05:10	5

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0010		0.0025	0.0010	mg/L		02/22/17 10:25	02/24/17 11:12	5
Arsenic	0.00070	J	0.0013	0.00046	mg/L		02/22/17 10:25	02/24/17 11:12	5
Barium	0.019		0.0025	0.00049	mg/L		02/22/17 10:25	02/24/17 11:12	5
Beryllium	<0.00034		0.0025	0.00034	mg/L		02/22/17 10:25	02/24/17 11:12	5
Boron	0.38		0.050	0.021	mg/L		02/22/17 10:25	02/24/17 11:12	5
Cadmium	<0.00034		0.0025	0.00034	mg/L		02/22/17 10:25	02/24/17 11:12	5
Chromium	0.0043		0.0025	0.0011	mg/L		02/22/17 10:25	02/24/17 11:12	5
Cobalt	0.00067	J	0.0025	0.00040	mg/L		02/22/17 10:25	02/24/17 11:12	5
Lead	<0.00035		0.0013	0.00035	mg/L		02/22/17 10:25	02/24/17 11:12	5
Lithium	<0.0032		0.0050	0.0032	mg/L		02/22/17 10:25	02/24/17 11:12	5
Molybdenum	0.0066	J	0.015	0.00085	mg/L		02/22/17 10:25	02/24/17 11:12	5
Selenium	0.0033		0.0013	0.00024	mg/L		02/22/17 10:25	02/24/17 11:12	5
Thallium	<0.000085		0.00050	0.000085	mg/L		02/22/17 10:25	02/24/17 11:12	5

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	47		0.25	0.13	mg/L		02/22/17 10:25	03/01/17 13:07	5

Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.000070		0.00020	0.000070	mg/L		02/26/17 13:13	02/27/17 12:42	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	350		5.0	3.4	mg/L			02/20/17 10:44	1

Client Sample Results

Client: Southern Company
Project/Site: CCR Plant Scherer

TestAmerica Job ID: 400-134140-1
SDG: Ash Pond

Client Sample ID: SGWC-13

Lab Sample ID: 400-134140-21

Date Collected: 02/15/17 11:59

Matrix: Water

Date Received: 02/17/17 08:54

Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	5.4		1.0	0.89	mg/L			02/25/17 02:30	1
Fluoride	<0.082		0.20	0.082	mg/L			02/25/17 02:30	1
Sulfate	73		5.0	3.5	mg/L			02/25/17 05:33	5

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0010	F1	0.0025	0.0010	mg/L		02/22/17 10:25	02/24/17 11:17	5
Arsenic	<0.00046		0.0013	0.00046	mg/L		02/22/17 10:25	02/24/17 11:17	5
Barium	0.026		0.0025	0.00049	mg/L		02/22/17 10:25	02/24/17 11:17	5
Beryllium	<0.00034		0.0025	0.00034	mg/L		02/22/17 10:25	02/24/17 11:17	5
Boron	0.50		0.050	0.021	mg/L		02/22/17 10:25	02/24/17 11:17	5
Cadmium	<0.00034		0.0025	0.00034	mg/L		02/22/17 10:25	02/24/17 11:17	5
Chromium	<0.0011		0.0025	0.0011	mg/L		02/22/17 10:25	02/24/17 11:17	5
Cobalt	0.0073		0.0025	0.00040	mg/L		02/22/17 10:25	02/24/17 11:17	5
Lead	<0.00035		0.0013	0.00035	mg/L		02/22/17 10:25	02/24/17 11:17	5
Lithium	<0.0032		0.0050	0.0032	mg/L		02/22/17 10:25	02/24/17 11:17	5
Molybdenum	<0.00085		0.015	0.00085	mg/L		02/22/17 10:25	02/24/17 11:17	5
Selenium	<0.00024		0.0013	0.00024	mg/L		02/22/17 10:25	02/24/17 11:17	5
Thallium	<0.000085		0.00050	0.000085	mg/L		02/22/17 10:25	02/24/17 11:17	5

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	17		0.25	0.13	mg/L		02/22/17 10:25	03/01/17 13:12	5

Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.000070		0.00020	0.000070	mg/L		02/25/17 12:44	02/27/17 14:26	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	160		5.0	3.4	mg/L			02/20/17 10:44	1

Client Sample Results

Client: Southern Company
Project/Site: CCR Plant Scherer

TestAmerica Job ID: 400-134140-1
SDG: Ash Pond

Client Sample ID: SGWC-14

Date Collected: 02/15/17 14:07

Date Received: 02/17/17 08:54

Lab Sample ID: 400-134140-22

Matrix: Water

Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	11		1.0	0.89	mg/L			02/25/17 02:53	1
Fluoride	<0.082		0.20	0.082	mg/L			02/25/17 02:53	1
Sulfate	190		5.0	3.5	mg/L			02/25/17 05:56	5

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0010		0.0025	0.0010	mg/L		02/22/17 10:25	02/24/17 11:40	5
Arsenic	<0.00046		0.0013	0.00046	mg/L		02/22/17 10:25	02/24/17 11:40	5
Barium	0.061		0.0025	0.00049	mg/L		02/22/17 10:25	02/24/17 11:40	5
Beryllium	<0.00034		0.0025	0.00034	mg/L		02/22/17 10:25	02/24/17 11:40	5
Boron	1.5		0.050	0.021	mg/L		02/22/17 10:25	02/24/17 11:40	5
Cadmium	<0.00034		0.0025	0.00034	mg/L		02/22/17 10:25	02/24/17 11:40	5
Chromium	<0.0011		0.0025	0.0011	mg/L		02/22/17 10:25	02/24/17 11:40	5
Cobalt	0.0059		0.0025	0.00040	mg/L		02/22/17 10:25	02/24/17 11:40	5
Lead	<0.00035		0.0013	0.00035	mg/L		02/22/17 10:25	02/24/17 11:40	5
Lithium	<0.0032		0.0050	0.0032	mg/L		02/22/17 10:25	02/24/17 11:40	5
Molybdenum	0.0030	J	0.015	0.00085	mg/L		02/22/17 10:25	02/24/17 11:40	5
Selenium	0.00066	J	0.0013	0.00024	mg/L		02/22/17 10:25	02/24/17 11:40	5
Thallium	<0.000085		0.00050	0.000085	mg/L		02/22/17 10:25	02/24/17 11:40	5

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	45		0.25	0.13	mg/L		02/22/17 10:25	03/01/17 13:16	5

Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.000070		0.00020	0.000070	mg/L		02/25/17 12:44	02/27/17 14:28	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	340		5.0	3.4	mg/L			02/20/17 10:44	1

Client Sample Results

Client: Southern Company
Project/Site: CCR Plant Scherer

TestAmerica Job ID: 400-134140-1
SDG: Ash Pond

Client Sample ID: SGWC-15

Lab Sample ID: 400-134140-23

Date Collected: 02/15/17 16:00

Matrix: Water

Date Received: 02/17/17 08:54

Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	9.8		1.0	0.89	mg/L			02/25/17 03:16	1
Fluoride	0.12	J	0.20	0.082	mg/L			02/25/17 03:16	1
Sulfate	190		5.0	3.5	mg/L			02/25/17 06:18	5

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0010		0.0025	0.0010	mg/L		02/22/17 10:25	02/24/17 11:44	5
Arsenic	0.00073	J	0.0013	0.00046	mg/L		02/22/17 10:25	02/24/17 11:44	5
Barium	0.038		0.0025	0.00049	mg/L		02/22/17 10:25	02/24/17 11:44	5
Beryllium	0.00037	J	0.0025	0.00034	mg/L		02/22/17 10:25	02/24/17 11:44	5
Boron	1.5		0.050	0.021	mg/L		02/22/17 10:25	02/24/17 11:44	5
Cadmium	0.00044	J	0.0025	0.00034	mg/L		02/22/17 10:25	02/24/17 11:44	5
Chromium	0.030		0.0025	0.0011	mg/L		02/22/17 10:25	02/24/17 11:44	5
Cobalt	0.24		0.0025	0.00040	mg/L		02/22/17 10:25	02/24/17 11:44	5
Lead	<0.00035		0.0013	0.00035	mg/L		02/22/17 10:25	02/24/17 11:44	5
Lithium	<0.0032		0.0050	0.0032	mg/L		02/22/17 10:25	02/24/17 11:44	5
Molybdenum	<0.00085		0.015	0.00085	mg/L		02/22/17 10:25	02/24/17 11:44	5
Selenium	0.00075	J	0.0013	0.00024	mg/L		02/22/17 10:25	02/24/17 11:44	5
Thallium	0.000085	J	0.00050	0.000085	mg/L		02/22/17 10:25	02/24/17 11:44	5

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	17		0.25	0.13	mg/L		02/22/17 10:25	03/01/17 13:21	5

Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.00011	J	0.00020	0.000070	mg/L		02/25/17 12:44	02/27/17 14:40	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	310		5.0	3.4	mg/L			02/20/17 10:44	1

Client Sample Results

Client: Southern Company
Project/Site: CCR Plant Scherer

TestAmerica Job ID: 400-134140-1
SDG: Ash Pond

Client Sample ID: SGWC-23

Lab Sample ID: 400-134140-24

Date Collected: 02/15/17 15:33

Matrix: Water

Date Received: 02/17/17 08:54

Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	10		1.0	0.89	mg/L			02/27/17 16:43	1
Fluoride	0.092	J	0.20	0.082	mg/L			02/27/17 16:43	1
Sulfate	120		5.0	3.5	mg/L			02/28/17 09:28	5

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0010		0.0025	0.0010	mg/L		02/22/17 10:25	02/24/17 12:11	5
Arsenic	<0.00046		0.0013	0.00046	mg/L		02/22/17 10:25	02/24/17 12:11	5
Barium	0.090		0.0025	0.00049	mg/L		02/22/17 10:25	02/24/17 12:11	5
Beryllium	<0.00034		0.0025	0.00034	mg/L		02/22/17 10:25	02/24/17 12:11	5
Cadmium	<0.00034		0.0025	0.00034	mg/L		02/22/17 10:25	02/24/17 12:11	5
Chromium	<0.0011		0.0025	0.0011	mg/L		02/22/17 10:25	02/24/17 12:11	5
Cobalt	<0.00040		0.0025	0.00040	mg/L		02/22/17 10:25	02/24/17 12:11	5
Lead	<0.00035		0.0013	0.00035	mg/L		02/22/17 10:25	02/24/17 12:11	5
Lithium	<0.0032		0.0050	0.0032	mg/L		02/22/17 10:25	02/24/17 12:11	5
Molybdenum	<0.00085		0.015	0.00085	mg/L		02/22/17 10:25	02/24/17 12:11	5
Selenium	<0.00024		0.0013	0.00024	mg/L		02/22/17 10:25	02/24/17 12:11	5
Thallium	<0.000085		0.00050	0.000085	mg/L		02/22/17 10:25	02/24/17 12:11	5

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Boron	0.82		0.050	0.021	mg/L		02/22/17 10:25	03/01/17 13:25	5
Calcium	32		0.25	0.13	mg/L		02/22/17 10:25	03/01/17 13:25	5

Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.000070		0.00020	0.000070	mg/L		02/25/17 12:44	02/27/17 14:42	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	260		5.0	3.4	mg/L			02/20/17 10:44	1

Client Sample Results

Client: Southern Company
Project/Site: CCR Plant Scherer

TestAmerica Job ID: 400-134140-1
SDG: Ash Pond

Client Sample ID: SGWC-19

Lab Sample ID: 400-134140-25

Date Collected: 02/16/17 11:56

Matrix: Water

Date Received: 02/18/17 08:31

Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	7.4		1.0	0.89	mg/L			02/27/17 17:06	1
Fluoride	<0.082		0.20	0.082	mg/L			02/27/17 17:06	1
Sulfate	210		5.0	3.5	mg/L			02/28/17 09:50	5

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0010		0.0025	0.0010	mg/L		02/22/17 10:25	02/24/17 12:16	5
Arsenic	<0.00046		0.0013	0.00046	mg/L		02/22/17 10:25	02/24/17 12:16	5
Barium	0.040		0.0025	0.00049	mg/L		02/22/17 10:25	02/24/17 12:16	5
Beryllium	<0.00034		0.0025	0.00034	mg/L		02/22/17 10:25	02/24/17 12:16	5
Cadmium	0.00036	J	0.0025	0.00034	mg/L		02/22/17 10:25	02/24/17 12:16	5
Chromium	0.015		0.0025	0.0011	mg/L		02/22/17 10:25	02/24/17 12:16	5
Cobalt	0.00049	J	0.0025	0.00040	mg/L		02/22/17 10:25	02/24/17 12:16	5
Lead	<0.00035		0.0013	0.00035	mg/L		02/22/17 10:25	02/24/17 12:16	5
Lithium	<0.0032		0.0050	0.0032	mg/L		02/22/17 10:25	02/24/17 12:16	5
Molybdenum	<0.00085		0.015	0.00085	mg/L		02/22/17 10:25	02/24/17 12:16	5
Selenium	<0.00024		0.0013	0.00024	mg/L		02/22/17 10:25	02/24/17 12:16	5
Thallium	<0.000085		0.00050	0.000085	mg/L		02/22/17 10:25	02/24/17 12:16	5

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Boron	2.3		0.25	0.11	mg/L		02/22/17 10:25	02/24/17 19:31	25

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	41		0.25	0.13	mg/L		02/22/17 10:25	03/01/17 13:30	5

Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.000070		0.00020	0.000070	mg/L		02/25/17 12:44	02/27/17 14:43	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	340		5.0	3.4	mg/L			02/21/17 16:12	1

Client Sample Results

Client: Southern Company
Project/Site: CCR Plant Scherer

TestAmerica Job ID: 400-134140-1
SDG: Ash Pond

Client Sample ID: SGWC-9

Lab Sample ID: 400-134140-26

Date Collected: 02/16/17 14:08

Matrix: Water

Date Received: 02/18/17 08:31

Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	9.5		1.0	0.89	mg/L			02/27/17 17:29	1
Fluoride	0.097	J	0.20	0.082	mg/L			02/27/17 17:29	1
Sulfate	300		10	7.0	mg/L			02/28/17 11:22	10

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0010		0.0025	0.0010	mg/L		02/22/17 10:25	02/24/17 12:26	5
Arsenic	0.00056	J	0.0013	0.00046	mg/L		02/22/17 10:25	02/24/17 12:26	5
Barium	0.056		0.0025	0.00049	mg/L		02/22/17 10:25	02/24/17 12:26	5
Beryllium	<0.00034		0.0025	0.00034	mg/L		02/22/17 10:25	02/24/17 12:26	5
Cadmium	<0.00034		0.0025	0.00034	mg/L		02/22/17 10:25	02/24/17 12:26	5
Chromium	<0.0011		0.0025	0.0011	mg/L		02/22/17 10:25	02/24/17 12:26	5
Cobalt	0.014		0.0025	0.00040	mg/L		02/22/17 10:25	02/24/17 12:26	5
Lead	<0.00035		0.0013	0.00035	mg/L		02/22/17 10:25	02/24/17 12:26	5
Lithium	<0.0032		0.0050	0.0032	mg/L		02/22/17 10:25	02/24/17 12:26	5
Molybdenum	<0.00085		0.015	0.00085	mg/L		02/22/17 10:25	02/24/17 12:26	5
Selenium	<0.00024		0.0013	0.00024	mg/L		02/22/17 10:25	02/24/17 12:26	5
Thallium	<0.000085		0.00050	0.000085	mg/L		02/22/17 10:25	02/24/17 12:26	5

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Boron	1.6		0.050	0.021	mg/L		02/22/17 10:25	03/01/17 13:52	5
Calcium	55		0.25	0.13	mg/L		02/22/17 10:25	03/01/17 13:52	5

Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.000070		0.00020	0.000070	mg/L		02/25/17 12:44	02/27/17 14:45	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	520		5.0	3.4	mg/L			02/21/17 16:12	1

Client Sample Results

Client: Southern Company
Project/Site: CCR Plant Scherer

TestAmerica Job ID: 400-134140-1
SDG: Ash Pond

Client Sample ID: SGWC-16

Lab Sample ID: 400-134140-27

Date Collected: 02/16/17 10:10

Matrix: Water

Date Received: 02/18/17 08:31

Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	7.7		1.0	0.89	mg/L			02/27/17 17:52	1
Fluoride	<0.082		0.20	0.082	mg/L			02/27/17 17:52	1
Sulfate	17		1.0	0.70	mg/L			02/27/17 17:52	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0010		0.0025	0.0010	mg/L		02/22/17 10:25	02/24/17 12:31	5
Arsenic	<0.00046		0.0013	0.00046	mg/L		02/22/17 10:25	02/24/17 12:31	5
Barium	0.017		0.0025	0.00049	mg/L		02/22/17 10:25	02/24/17 12:31	5
Beryllium	<0.00034		0.0025	0.00034	mg/L		02/22/17 10:25	02/24/17 12:31	5
Cadmium	<0.00034		0.0025	0.00034	mg/L		02/22/17 10:25	02/24/17 12:31	5
Chromium	0.0097		0.0025	0.0011	mg/L		02/22/17 10:25	02/24/17 12:31	5
Cobalt	0.0033		0.0025	0.00040	mg/L		02/22/17 10:25	02/24/17 12:31	5
Lead	<0.00035		0.0013	0.00035	mg/L		02/22/17 10:25	02/24/17 12:31	5
Lithium	<0.0032		0.0050	0.0032	mg/L		02/22/17 10:25	02/24/17 12:31	5
Molybdenum	<0.00085		0.015	0.00085	mg/L		02/22/17 10:25	02/24/17 12:31	5
Selenium	<0.00024		0.0013	0.00024	mg/L		02/22/17 10:25	02/24/17 12:31	5
Thallium	<0.000085		0.00050	0.000085	mg/L		02/22/17 10:25	02/24/17 12:31	5

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Boron	0.58		0.050	0.021	mg/L		02/22/17 10:25	03/01/17 13:57	5
Calcium	0.81		0.25	0.13	mg/L		02/22/17 10:25	03/01/17 13:57	5

Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.000070		0.00020	0.000070	mg/L		02/25/17 12:44	02/27/17 14:46	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	40		5.0	3.4	mg/L			02/23/17 15:54	1

Client Sample Results

Client: Southern Company
Project/Site: CCR Plant Scherer

TestAmerica Job ID: 400-134140-1
SDG: Ash Pond

Client Sample ID: FD-3(AP)

Lab Sample ID: 400-134140-28

Date Collected: 02/16/17 00:00

Matrix: Water

Date Received: 02/18/17 08:31

Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	7.7		1.0	0.89	mg/L			02/27/17 18:14	1
Fluoride	<0.082		0.20	0.082	mg/L			02/27/17 18:14	1
Sulfate	17		1.0	0.70	mg/L			02/27/17 18:14	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0010		0.0025	0.0010	mg/L		02/22/17 10:25	02/24/17 12:35	5
Arsenic	<0.00046		0.0013	0.00046	mg/L		02/22/17 10:25	02/24/17 12:35	5
Barium	0.017		0.0025	0.00049	mg/L		02/22/17 10:25	02/24/17 12:35	5
Beryllium	<0.00034		0.0025	0.00034	mg/L		02/22/17 10:25	02/24/17 12:35	5
Cadmium	<0.00034		0.0025	0.00034	mg/L		02/22/17 10:25	02/24/17 12:35	5
Chromium	0.0095		0.0025	0.0011	mg/L		02/22/17 10:25	02/24/17 12:35	5
Cobalt	0.0034		0.0025	0.00040	mg/L		02/22/17 10:25	02/24/17 12:35	5
Lead	<0.00035		0.0013	0.00035	mg/L		02/22/17 10:25	02/24/17 12:35	5
Lithium	<0.0032		0.0050	0.0032	mg/L		02/22/17 10:25	02/24/17 12:35	5
Molybdenum	<0.00085		0.015	0.00085	mg/L		02/22/17 10:25	02/24/17 12:35	5
Selenium	<0.00024		0.0013	0.00024	mg/L		02/22/17 10:25	02/24/17 12:35	5
Thallium	<0.000085		0.00050	0.000085	mg/L		02/22/17 10:25	02/24/17 12:35	5

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Boron	0.59		0.050	0.021	mg/L		02/22/17 10:25	03/01/17 14:01	5
Calcium	0.85		0.25	0.13	mg/L		02/22/17 10:25	03/01/17 14:01	5

Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.000070		0.00020	0.000070	mg/L		02/25/17 12:44	02/27/17 14:47	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	52		5.0	3.4	mg/L			02/20/17 10:44	1

Client Sample Results

Client: Southern Company
Project/Site: CCR Plant Scherer

TestAmerica Job ID: 400-134140-1
SDG: Ash Pond

Client Sample ID: SGWC-22

Lab Sample ID: 400-134140-29

Date Collected: 02/16/17 10:22

Matrix: Water

Date Received: 02/18/17 08:31

Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	9.8		1.0	0.89	mg/L			02/27/17 19:00	1
Fluoride	0.10	J	0.20	0.082	mg/L			02/27/17 19:00	1
Sulfate	83		5.0	3.5	mg/L			02/28/17 12:30	5

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0010		0.0025	0.0010	mg/L		02/22/17 10:25	02/24/17 12:40	5
Arsenic	<0.00046		0.0013	0.00046	mg/L		02/22/17 10:25	02/24/17 12:40	5
Barium	0.091		0.0025	0.00049	mg/L		02/22/17 10:25	02/24/17 12:40	5
Beryllium	<0.00034		0.0025	0.00034	mg/L		02/22/17 10:25	02/24/17 12:40	5
Cadmium	<0.00034		0.0025	0.00034	mg/L		02/22/17 10:25	02/24/17 12:40	5
Chromium	<0.0011		0.0025	0.0011	mg/L		02/22/17 10:25	02/24/17 12:40	5
Cobalt	0.0031		0.0025	0.00040	mg/L		02/22/17 10:25	02/24/17 12:40	5
Lead	<0.00035		0.0013	0.00035	mg/L		02/22/17 10:25	02/24/17 12:40	5
Lithium	<0.0032		0.0050	0.0032	mg/L		02/22/17 10:25	02/24/17 12:40	5
Molybdenum	<0.00085		0.015	0.00085	mg/L		02/22/17 10:25	02/24/17 12:40	5
Selenium	<0.00024		0.0013	0.00024	mg/L		02/22/17 10:25	02/24/17 12:40	5
Thallium	<0.000085		0.00050	0.000085	mg/L		02/22/17 10:25	02/24/17 12:40	5

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Boron	0.38		0.050	0.021	mg/L		02/22/17 10:25	03/01/17 14:06	5
Calcium	27		0.25	0.13	mg/L		02/22/17 10:25	03/01/17 14:06	5

Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.000070		0.00020	0.000070	mg/L		02/25/17 12:44	02/27/17 14:48	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	200		5.0	3.4	mg/L			02/23/17 15:54	1

Client Sample Results

Client: Southern Company
Project/Site: CCR Plant Scherer

TestAmerica Job ID: 400-134140-1
SDG: Ash Pond

Client Sample ID: FB-3(AP)

Lab Sample ID: 400-134140-30

Date Collected: 02/16/17 10:30

Matrix: Water

Date Received: 02/18/17 08:31

Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<0.89		1.0	0.89	mg/L			02/27/17 19:23	1
Fluoride	<0.082		0.20	0.082	mg/L			02/27/17 19:23	1
Sulfate	<0.70		1.0	0.70	mg/L			02/27/17 19:23	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0010		0.0025	0.0010	mg/L		02/22/17 10:25	02/24/17 12:44	5
Arsenic	<0.00046		0.0013	0.00046	mg/L		02/22/17 10:25	02/24/17 12:44	5
Barium	<0.00049		0.0025	0.00049	mg/L		02/22/17 10:25	02/24/17 12:44	5
Beryllium	<0.00034		0.0025	0.00034	mg/L		02/22/17 10:25	02/24/17 12:44	5
Cadmium	<0.00034		0.0025	0.00034	mg/L		02/22/17 10:25	02/24/17 12:44	5
Chromium	<0.0011		0.0025	0.0011	mg/L		02/22/17 10:25	02/24/17 12:44	5
Cobalt	<0.00040		0.0025	0.00040	mg/L		02/22/17 10:25	02/24/17 12:44	5
Lead	<0.00035		0.0013	0.00035	mg/L		02/22/17 10:25	02/24/17 12:44	5
Lithium	<0.0032		0.0050	0.0032	mg/L		02/22/17 10:25	02/24/17 12:44	5
Molybdenum	<0.00085		0.015	0.00085	mg/L		02/22/17 10:25	02/24/17 12:44	5
Selenium	<0.00024		0.0013	0.00024	mg/L		02/22/17 10:25	02/24/17 12:44	5
Thallium	<0.000085		0.00050	0.000085	mg/L		02/22/17 10:25	02/24/17 12:44	5

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Boron	<0.021		0.050	0.021	mg/L		02/22/17 10:25	03/01/17 14:10	5
Calcium	<0.13		0.25	0.13	mg/L		02/22/17 10:25	03/01/17 14:10	5

Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.000070		0.00020	0.000070	mg/L		02/25/17 12:44	02/27/17 14:49	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	<3.4		5.0	3.4	mg/L			02/23/17 15:54	1

Client Sample Results

Client: Southern Company
Project/Site: CCR Plant Scherer

TestAmerica Job ID: 400-134140-1
SDG: Ash Pond

Client Sample ID: SGWC-21

Date Collected: 02/16/17 11:48

Date Received: 02/18/17 08:31

Lab Sample ID: 400-134140-31

Matrix: Water

Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	7.4		1.0	0.89	mg/L			02/27/17 19:46	1
Fluoride	0.12	J	0.20	0.082	mg/L			02/27/17 19:46	1
Sulfate	77		5.0	3.5	mg/L			02/28/17 12:53	5

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0010		0.0025	0.0010	mg/L		02/22/17 10:25	02/24/17 12:49	5
Arsenic	<0.00046		0.0013	0.00046	mg/L		02/22/17 10:25	02/24/17 12:49	5
Barium	0.091		0.0025	0.00049	mg/L		02/22/17 10:25	02/24/17 12:49	5
Beryllium	<0.00034		0.0025	0.00034	mg/L		02/22/17 10:25	02/24/17 12:49	5
Cadmium	0.00039	J	0.0025	0.00034	mg/L		02/22/17 10:25	02/24/17 12:49	5
Chromium	<0.0011		0.0025	0.0011	mg/L		02/22/17 10:25	02/24/17 12:49	5
Cobalt	<0.00040		0.0025	0.00040	mg/L		02/22/17 10:25	02/24/17 12:49	5
Lead	<0.00035		0.0013	0.00035	mg/L		02/22/17 10:25	02/24/17 12:49	5
Lithium	<0.0032		0.0050	0.0032	mg/L		02/22/17 10:25	02/24/17 12:49	5
Molybdenum	<0.00085		0.015	0.00085	mg/L		02/22/17 10:25	02/24/17 12:49	5
Selenium	<0.00024		0.0013	0.00024	mg/L		02/22/17 10:25	02/24/17 12:49	5
Thallium	<0.00085		0.00050	0.000085	mg/L		02/22/17 10:25	02/24/17 12:49	5

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Boron	1.4		0.050	0.021	mg/L		02/22/17 10:25	03/01/17 14:15	5
Calcium	31		0.25	0.13	mg/L		02/22/17 10:25	03/01/17 14:15	5

Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.000070		0.00020	0.000070	mg/L		02/25/17 12:44	02/27/17 14:51	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	310		5.0	3.4	mg/L			02/23/17 15:54	1

Client Sample Results

Client: Southern Company
Project/Site: CCR Plant Scherer

TestAmerica Job ID: 400-134140-1
SDG: Ash Pond

Client Sample ID: SGWC-20

Lab Sample ID: 400-134140-32

Date Collected: 02/16/17 13:32

Matrix: Water

Date Received: 02/18/17 08:31

Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	9.8		1.0	0.89	mg/L			02/27/17 20:54	1
Fluoride	0.28		0.20	0.082	mg/L			02/27/17 20:54	1
Sulfate	230		5.0	3.5	mg/L			02/28/17 14:01	5

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0010		0.0025	0.0010	mg/L		02/22/17 10:25	02/24/17 12:54	5
Arsenic	<0.00046		0.0013	0.00046	mg/L		02/22/17 10:25	02/24/17 12:54	5
Barium	0.034		0.0025	0.00049	mg/L		02/22/17 10:25	02/24/17 12:54	5
Beryllium	0.00091	J	0.0025	0.00034	mg/L		02/22/17 10:25	02/24/17 12:54	5
Cadmium	<0.00034		0.0025	0.00034	mg/L		02/22/17 10:25	02/24/17 12:54	5
Chromium	<0.0011		0.0025	0.0011	mg/L		02/22/17 10:25	02/24/17 12:54	5
Cobalt	0.23		0.0025	0.00040	mg/L		02/22/17 10:25	02/24/17 12:54	5
Lead	0.00035	J	0.0013	0.00035	mg/L		02/22/17 10:25	02/24/17 12:54	5
Lithium	0.0047	J	0.0050	0.0032	mg/L		02/22/17 10:25	02/24/17 12:54	5
Molybdenum	<0.00085		0.015	0.00085	mg/L		02/22/17 10:25	02/24/17 12:54	5
Selenium	<0.00024		0.0013	0.00024	mg/L		02/22/17 10:25	02/24/17 12:54	5
Thallium	0.00014	J	0.00050	0.000085	mg/L		02/22/17 10:25	02/24/17 12:54	5

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Boron	2.3		0.25	0.11	mg/L		02/22/17 10:25	02/24/17 19:35	25

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	14		0.25	0.13	mg/L		02/22/17 10:25	03/01/17 14:19	5

Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.000070		0.00020	0.000070	mg/L		02/25/17 12:44	02/27/17 14:58	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	350		5.0	3.4	mg/L			02/23/17 15:54	1

Client Sample Results

Client: Southern Company
Project/Site: CCR Plant Scherer

TestAmerica Job ID: 400-134140-1
SDG: Ash Pond

Client Sample ID: SGWC-18

Lab Sample ID: 400-134140-33

Date Collected: 02/16/17 15:11

Matrix: Water

Date Received: 02/18/17 08:31

Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	7.4		1.0	0.89	mg/L			02/27/17 21:17	1
Fluoride	<0.082		0.20	0.082	mg/L			02/27/17 21:17	1
Sulfate	450		10	7.0	mg/L			02/28/17 14:24	10

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0010		0.0025	0.0010	mg/L		02/22/17 10:25	02/24/17 12:58	5
Arsenic	0.00086	J	0.0013	0.00046	mg/L		02/22/17 10:25	02/24/17 12:58	5
Barium	0.013		0.0025	0.00049	mg/L		02/22/17 10:25	02/24/17 12:58	5
Beryllium	<0.00034		0.0025	0.00034	mg/L		02/22/17 10:25	02/24/17 12:58	5
Cadmium	<0.00034		0.0025	0.00034	mg/L		02/22/17 10:25	02/24/17 12:58	5
Lead	<0.00035		0.0013	0.00035	mg/L		02/22/17 10:25	02/24/17 12:58	5
Lithium	0.0034	J	0.0050	0.0032	mg/L		02/22/17 10:25	02/24/17 12:58	5
Molybdenum	<0.00085		0.015	0.00085	mg/L		02/22/17 10:25	02/24/17 12:58	5
Selenium	0.0055		0.0013	0.00024	mg/L		02/22/17 10:25	02/24/17 12:58	5
Thallium	0.00013	J	0.00050	0.000085	mg/L		02/22/17 10:25	02/24/17 12:58	5

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Boron	3.9		0.25	0.11	mg/L		02/22/17 10:25	02/24/17 19:40	25

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	51		0.25	0.13	mg/L		02/22/17 10:25	03/01/17 14:24	5
Chromium	0.0070		0.0025	0.0011	mg/L		02/22/17 10:25	03/01/17 14:24	5
Cobalt	0.11		0.0025	0.00040	mg/L		02/22/17 10:25	03/01/17 14:24	5

Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.000084	J	0.00020	0.000070	mg/L		02/25/17 12:44	02/27/17 15:00	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	600		5.0	3.4	mg/L			02/23/17 15:54	1

Client Sample Results

Client: Southern Company
Project/Site: CCR Plant Scherer

TestAmerica Job ID: 400-134140-1
SDG: Ash Pond

Client Sample ID: EB-3(AP)

Date Collected: 02/16/17 08:20

Date Received: 02/18/17 08:31

Lab Sample ID: 400-134140-34

Matrix: Water

Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<0.89		1.0	0.89	mg/L			02/27/17 21:40	1
Fluoride	<0.082		0.20	0.082	mg/L			02/27/17 21:40	1
Sulfate	<0.70		1.0	0.70	mg/L			02/27/17 21:40	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0010		0.0025	0.0010	mg/L		02/22/17 10:25	02/24/17 13:25	5
Arsenic	<0.00046		0.0013	0.00046	mg/L		02/22/17 10:25	02/24/17 13:25	5
Barium	<0.00049		0.0025	0.00049	mg/L		02/22/17 10:25	02/24/17 13:25	5
Beryllium	<0.00034		0.0025	0.00034	mg/L		02/22/17 10:25	02/24/17 13:25	5
Cadmium	<0.00034		0.0025	0.00034	mg/L		02/22/17 10:25	02/24/17 13:25	5
Chromium	<0.0011		0.0025	0.0011	mg/L		02/22/17 10:25	02/24/17 13:25	5
Cobalt	<0.00040		0.0025	0.00040	mg/L		02/22/17 10:25	02/24/17 13:25	5
Lead	<0.00035		0.0013	0.00035	mg/L		02/22/17 10:25	02/24/17 13:25	5
Lithium	<0.0032		0.0050	0.0032	mg/L		02/22/17 10:25	02/24/17 13:25	5
Molybdenum	<0.00085		0.015	0.00085	mg/L		02/22/17 10:25	02/24/17 13:25	5
Selenium	<0.00024		0.0013	0.00024	mg/L		02/22/17 10:25	02/24/17 13:25	5
Thallium	<0.000085		0.00050	0.000085	mg/L		02/22/17 10:25	02/24/17 13:25	5

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Boron	0.092		0.050	0.021	mg/L		02/22/17 10:25	03/01/17 14:28	5
Calcium	<0.13		0.25	0.13	mg/L		02/22/17 10:25	03/01/17 14:28	5

Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.000070		0.00020	0.000070	mg/L		02/25/17 12:44	02/27/17 15:01	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	<3.4		5.0	3.4	mg/L			02/23/17 15:54	1

Definitions/Glossary

Client: Southern Company
Project/Site: CCR Plant Scherer

TestAmerica Job ID: 400-134140-1
SDG: Ash Pond

Qualifiers

HPLC/IC

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.
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.

Metals

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.
F1	MS and/or MSD Recovery is outside acceptance limits.
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.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
α	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CNF	Contains no Free Liquid
DER	Duplicate error ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision level concentration
MDA	Minimum detectable activity
EDL	Estimated Detection Limit
MDC	Minimum detectable concentration
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
NC	Not Calculated
ND	Not detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RER	Relative error ratio
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)

Lab Chronicle

Client: Southern Company
Project/Site: CCR Plant Scherer

TestAmerica Job ID: 400-134140-1
SDG: Ash Pond

Client Sample ID: SGWA-3

Date Collected: 02/14/17 11:15

Date Received: 02/16/17 08:46

Lab Sample ID: 400-134140-1

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	300.0		1	343698	02/24/17 20:48	KH1	TAL PEN
Total Recoverable	Prep	3005A			343051	02/21/17 11:30	RJB	TAL PEN
Total Recoverable	Analysis	6020		5	343369	02/22/17 12:09	DRE	TAL PEN
Total/NA	Prep	7470A			343355	02/26/17 13:13	DN1	TAL PEN
Total/NA	Analysis	7470A		1	343808	02/27/17 10:59	JAP	TAL PEN
Total/NA	Analysis	SM 2540C		1	342879	02/19/17 11:34	RRC	TAL PEN

Client Sample ID: FB-1(AP)

Date Collected: 02/14/17 11:00

Date Received: 02/16/17 08:46

Lab Sample ID: 400-134140-2

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	300.0		1	343279	02/22/17 17:37	KH1	TAL PEN
Total Recoverable	Prep	3005A			343051	02/21/17 11:30	RJB	TAL PEN
Total Recoverable	Analysis	6020		5	343369	02/22/17 12:32	DRE	TAL PEN
Total/NA	Prep	7470A			343355	02/26/17 13:13	DN1	TAL PEN
Total/NA	Analysis	7470A		1	343808	02/27/17 11:01	JAP	TAL PEN
Total/NA	Analysis	SM 2540C		1	342879	02/19/17 11:34	RRC	TAL PEN

Client Sample ID: SGWC-6

Date Collected: 02/14/17 13:45

Date Received: 02/16/17 08:46

Lab Sample ID: 400-134140-3

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	300.0		1	343279	02/22/17 18:22	KH1	TAL PEN
Total Recoverable	Prep	3005A			343051	02/21/17 11:30	RJB	TAL PEN
Total Recoverable	Analysis	6020		5	343369	02/22/17 12:36	DRE	TAL PEN
Total/NA	Prep	7470A			343355	02/26/17 13:13	DN1	TAL PEN
Total/NA	Analysis	7470A		1	343808	02/27/17 11:06	JAP	TAL PEN
Total/NA	Analysis	SM 2540C		1	342879	02/19/17 11:34	RRC	TAL PEN

Client Sample ID: SGWC-8

Date Collected: 02/14/17 15:05

Date Received: 02/16/17 08:46

Lab Sample ID: 400-134140-4

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	300.0		1	343279	02/22/17 18:45	KH1	TAL PEN
Total/NA	Analysis	300.0		5	343698	02/25/17 04:24	KH1	TAL PEN
Total Recoverable	Prep	3005A			343051	02/21/17 11:30	RJB	TAL PEN
Total Recoverable	Analysis	6020		5	343369	02/22/17 12:59	DRE	TAL PEN
Total/NA	Prep	7470A			343355	02/26/17 13:13	DN1	TAL PEN
Total/NA	Analysis	7470A		1	343808	02/27/17 11:08	JAP	TAL PEN

TestAmerica Pensacola

Lab Chronicle

Client: Southern Company
Project/Site: CCR Plant Scherer

TestAmerica Job ID: 400-134140-1
SDG: Ash Pond

Client Sample ID: SGWC-8

Date Collected: 02/14/17 15:05

Date Received: 02/16/17 08:46

Lab Sample ID: 400-134140-4

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	SM 2540C		1	342879	02/19/17 11:34	RRC	TAL PEN

Client Sample ID: SGWA-5

Date Collected: 02/14/17 09:50

Date Received: 02/16/17 08:46

Lab Sample ID: 400-134140-5

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	300.0		1	343279	02/22/17 19:08	KH1	TAL PEN
Total Recoverable	Prep	3005A			343051	02/21/17 11:30	RJB	TAL PEN
Total Recoverable	Analysis	6020		5	343369	02/22/17 13:06	DRE	TAL PEN
Total/NA	Prep	7470A			343355	02/26/17 13:13	DN1	TAL PEN
Total/NA	Analysis	7470A		1	343808	02/27/17 11:09	JAP	TAL PEN
Total/NA	Analysis	SM 2540C		1	342879	02/19/17 11:34	RRC	TAL PEN

Client Sample ID: FD-1(AP)

Date Collected: 02/14/17 00:00

Date Received: 02/16/17 08:46

Lab Sample ID: 400-134140-6

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	300.0		1	343279	02/22/17 20:16	KH1	TAL PEN
Total Recoverable	Prep	3005A			343051	02/21/17 11:30	RJB	TAL PEN
Total Recoverable	Analysis	6020		5	343369	02/22/17 13:11	DRE	TAL PEN
Total/NA	Prep	7470A			343355	02/26/17 13:13	DN1	TAL PEN
Total/NA	Analysis	7470A		1	343808	02/27/17 12:11	JAP	TAL PEN
Total/NA	Analysis	SM 2540C		1	342879	02/19/17 11:34	RRC	TAL PEN

Client Sample ID: SGWA-4

Date Collected: 02/14/17 11:46

Date Received: 02/16/17 08:46

Lab Sample ID: 400-134140-7

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	300.0		1	343279	02/22/17 20:39	KH1	TAL PEN
Total Recoverable	Prep	3005A			343051	02/21/17 11:30	RJB	TAL PEN
Total Recoverable	Analysis	6020		5	343369	02/22/17 13:15	DRE	TAL PEN
Total/NA	Prep	7470A			343355	02/26/17 13:13	DN1	TAL PEN
Total/NA	Analysis	7470A		1	343808	02/27/17 12:13	JAP	TAL PEN
Total/NA	Analysis	SM 2540C		1	342879	02/19/17 11:34	RRC	TAL PEN

Lab Chronicle

Client: Southern Company
Project/Site: CCR Plant Scherer

TestAmerica Job ID: 400-134140-1
SDG: Ash Pond

Client Sample ID: SGWC-7

Lab Sample ID: 400-134140-8

Date Collected: 02/14/17 14:05

Matrix: Water

Date Received: 02/16/17 08:46

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	300.0		1	343279	02/22/17 21:02	KH1	TAL PEN
Total Recoverable	Prep	3005A			343051	02/21/17 11:30	RJB	TAL PEN
Total Recoverable	Analysis	6020		5	343369	02/22/17 13:20	DRE	TAL PEN
Total/NA	Prep	7470A			343355	02/26/17 13:13	DN1	TAL PEN
Total/NA	Analysis	7470A		1	343808	02/27/17 12:14	JAP	TAL PEN
Total/NA	Analysis	SM 2540C		1	342879	02/19/17 11:34	RRC	TAL PEN

Client Sample ID: SGWA-24

Lab Sample ID: 400-134140-9

Date Collected: 02/14/17 10:41

Matrix: Water

Date Received: 02/16/17 08:46

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	300.0		1	343279	02/22/17 21:25	KH1	TAL PEN
Total Recoverable	Prep	3005A			343051	02/21/17 11:30	RJB	TAL PEN
Total Recoverable	Analysis	6020		5	343369	02/22/17 13:24	DRE	TAL PEN
Total/NA	Prep	7470A			343355	02/26/17 13:13	DN1	TAL PEN
Total/NA	Analysis	7470A		1	343808	02/27/17 12:15	JAP	TAL PEN
Total/NA	Analysis	SM 2540C		1	342879	02/19/17 11:34	RRC	TAL PEN

Client Sample ID: SGWA-1

Lab Sample ID: 400-134140-10

Date Collected: 02/14/17 12:31

Matrix: Water

Date Received: 02/16/17 08:46

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	300.0		1	343279	02/22/17 21:47	KH1	TAL PEN
Total Recoverable	Prep	3005A			343051	02/21/17 11:30	RJB	TAL PEN
Total Recoverable	Analysis	6020		5	343369	02/22/17 13:29	DRE	TAL PEN
Total/NA	Prep	7470A			343355	02/26/17 13:13	DN1	TAL PEN
Total/NA	Analysis	7470A		1	343808	02/27/17 12:16	JAP	TAL PEN
Total/NA	Analysis	SM 2540C		1	342879	02/19/17 11:34	RRC	TAL PEN

Client Sample ID: SGWA-2

Lab Sample ID: 400-134140-11

Date Collected: 02/14/17 13:56

Matrix: Water

Date Received: 02/16/17 08:46

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	300.0		1	343279	02/22/17 22:10	KH1	TAL PEN
Total Recoverable	Prep	3005A			343051	02/21/17 11:30	RJB	TAL PEN
Total Recoverable	Analysis	6020		5	343369	02/22/17 13:33	DRE	TAL PEN
Total/NA	Prep	7470A			343355	02/26/17 13:13	DN1	TAL PEN
Total/NA	Analysis	7470A		1	343808	02/27/17 12:17	JAP	TAL PEN
Total/NA	Analysis	SM 2540C		1	342879	02/19/17 11:34	RRC	TAL PEN

TestAmerica Pensacola

Lab Chronicle

Client: Southern Company
Project/Site: CCR Plant Scherer

TestAmerica Job ID: 400-134140-1
SDG: Ash Pond

Client Sample ID: EB-1(AP)

Lab Sample ID: 400-134140-12

Date Collected: 02/14/17 08:20

Matrix: Water

Date Received: 02/16/17 08:46

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	300.0		1	343698	02/24/17 21:11	KH1	TAL PEN
Total Recoverable	Prep	3005A			343051	02/21/17 11:30	RJB	TAL PEN
Total Recoverable	Analysis	6020		5	343369	02/22/17 13:37	DRE	TAL PEN
Total/NA	Prep	7470A			343355	02/26/17 13:13	DN1	TAL PEN
Total/NA	Analysis	7470A		1	343808	02/27/17 12:19	JAP	TAL PEN
Total/NA	Analysis	SM 2540C		1	342935	02/20/17 10:44	RRC	TAL PEN

Client Sample ID: SGWA-25

Lab Sample ID: 400-134140-13

Date Collected: 02/14/17 15:10

Matrix: Water

Date Received: 02/16/17 08:46

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	300.0		1	343698	02/24/17 21:34	KH1	TAL PEN
Total Recoverable	Prep	3005A			343051	02/21/17 11:30	RJB	TAL PEN
Total Recoverable	Analysis	6020		5	343369	02/22/17 13:42	DRE	TAL PEN
Total/NA	Prep	7470A			343355	02/26/17 13:13	DN1	TAL PEN
Total/NA	Analysis	7470A		1	343808	02/27/17 12:20	JAP	TAL PEN
Total/NA	Analysis	SM 2540C		1	342935	02/20/17 10:44	RRC	TAL PEN

Client Sample ID: SGWC-10

Lab Sample ID: 400-134140-14

Date Collected: 02/15/17 11:45

Matrix: Water

Date Received: 02/17/17 08:54

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	300.0		1	343698	02/24/17 22:42	KH1	TAL PEN
Total Recoverable	Prep	3005A			343051	02/21/17 11:30	RJB	TAL PEN
Total Recoverable	Analysis	6020		5	343369	02/22/17 14:04	DRE	TAL PEN
Total/NA	Prep	7470A			343355	02/26/17 13:13	DN1	TAL PEN
Total/NA	Analysis	7470A		1	343808	02/27/17 12:21	JAP	TAL PEN
Total/NA	Analysis	SM 2540C		1	343102	02/21/17 16:12	TET	TAL PEN

Client Sample ID: EB-2(AP)

Lab Sample ID: 400-134140-15

Date Collected: 02/15/17 10:10

Matrix: Water

Date Received: 02/17/17 08:54

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	300.0		1	343698	02/24/17 23:51	KH1	TAL PEN
Total Recoverable	Prep	3005A			343051	02/21/17 11:30	RJB	TAL PEN
Total Recoverable	Analysis	6020		5	343369	02/22/17 14:09	DRE	TAL PEN
Total/NA	Prep	7470A			343355	02/26/17 13:13	DN1	TAL PEN
Total/NA	Analysis	7470A		1	343808	02/27/17 12:22	JAP	TAL PEN
Total/NA	Analysis	SM 2540C		1	342935	02/20/17 10:44	RRC	TAL PEN

TestAmerica Pensacola

Lab Chronicle

Client: Southern Company
Project/Site: CCR Plant Scherer

TestAmerica Job ID: 400-134140-1
SDG: Ash Pond

Client Sample ID: SGWC-12

Lab Sample ID: 400-134140-16

Date Collected: 02/15/17 14:05

Matrix: Water

Date Received: 02/17/17 08:54

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	300.0		1	343698	02/25/17 00:13	KH1	TAL PEN
Total Recoverable	Prep	3005A			343051	02/21/17 11:30	RJB	TAL PEN
Total Recoverable	Analysis	6020		5	343369	02/22/17 14:13	DRE	TAL PEN
Total/NA	Prep	7470A			343355	02/26/17 13:13	DN1	TAL PEN
Total/NA	Analysis	7470A		1	343808	02/27/17 12:38	JAP	TAL PEN
Total/NA	Analysis	SM 2540C		1	342935	02/20/17 10:44	RRC	TAL PEN

Client Sample ID: FB-2(AP)

Lab Sample ID: 400-134140-17

Date Collected: 02/15/17 13:45

Matrix: Water

Date Received: 02/17/17 08:54

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	300.0		1	343698	02/25/17 00:36	KH1	TAL PEN
Total Recoverable	Prep	3005A			343051	02/21/17 11:30	RJB	TAL PEN
Total Recoverable	Analysis	6020		5	343369	02/22/17 14:18	DRE	TAL PEN
Total/NA	Prep	7470A			343355	02/26/17 13:13	DN1	TAL PEN
Total/NA	Analysis	7470A		1	343808	02/27/17 12:39	JAP	TAL PEN
Total/NA	Analysis	SM 2540C		1	342935	02/20/17 10:44	RRC	TAL PEN

Client Sample ID: SGWC-11

Lab Sample ID: 400-134140-18

Date Collected: 02/15/17 11:50

Matrix: Water

Date Received: 02/17/17 08:54

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	300.0		1	343698	02/25/17 00:59	KH1	TAL PEN
Total Recoverable	Prep	3005A			343051	02/21/17 11:30	RJB	TAL PEN
Total Recoverable	Analysis	6020		5	343369	02/22/17 14:22	DRE	TAL PEN
Total/NA	Prep	7470A			343355	02/26/17 13:13	DN1	TAL PEN
Total/NA	Analysis	7470A		1	343808	02/27/17 12:40	JAP	TAL PEN
Total/NA	Analysis	SM 2540C		1	342935	02/20/17 10:44	RRC	TAL PEN

Client Sample ID: SGWC-17

Lab Sample ID: 400-134140-19

Date Collected: 02/15/17 13:24

Matrix: Water

Date Received: 02/17/17 08:54

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	300.0		1	343698	02/25/17 01:22	KH1	TAL PEN
Total/NA	Analysis	300.0		5	343698	02/25/17 04:47	KH1	TAL PEN
Total Recoverable	Prep	3005A			343051	02/21/17 11:30	RJB	TAL PEN
Total Recoverable	Analysis	6020		5	343369	02/22/17 14:27	DRE	TAL PEN
Total/NA	Prep	7470A			343355	02/26/17 13:13	DN1	TAL PEN
Total/NA	Analysis	7470A		1	343808	02/27/17 12:41	JAP	TAL PEN

TestAmerica Pensacola

Lab Chronicle

Client: Southern Company
Project/Site: CCR Plant Scherer

TestAmerica Job ID: 400-134140-1
SDG: Ash Pond

Client Sample ID: SGWC-17

Lab Sample ID: 400-134140-19

Date Collected: 02/15/17 13:24

Matrix: Water

Date Received: 02/17/17 08:54

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	SM 2540C		1	342935	02/20/17 10:44	RRC	TAL PEN

Client Sample ID: FD-2(AP)

Lab Sample ID: 400-134140-20

Date Collected: 02/15/17 00:00

Matrix: Water

Date Received: 02/17/17 08:54

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	300.0		1	343698	02/25/17 01:45	KH1	TAL PEN
Total/NA	Analysis	300.0		5	343698	02/25/17 05:10	KH1	TAL PEN
Total Recoverable	Prep	3005A			343053	02/22/17 10:25	RJB	TAL PEN
Total Recoverable	Analysis	6020		5	343697	02/24/17 11:12	DRE	TAL PEN
Total Recoverable	Prep	3005A	RA		343053	02/22/17 10:25	RJB	TAL PEN
Total Recoverable	Analysis	6020	RA	5	344230	03/01/17 13:07	DRE	TAL PEN
Total/NA	Prep	7470A			343355	02/26/17 13:13	DN1	TAL PEN
Total/NA	Analysis	7470A		1	343808	02/27/17 12:42	JAP	TAL PEN
Total/NA	Analysis	SM 2540C		1	342935	02/20/17 10:44	RRC	TAL PEN

Client Sample ID: SGWC-13

Lab Sample ID: 400-134140-21

Date Collected: 02/15/17 11:59

Matrix: Water

Date Received: 02/17/17 08:54

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	300.0		1	343698	02/25/17 02:30	KH1	TAL PEN
Total/NA	Analysis	300.0		5	343698	02/25/17 05:33	KH1	TAL PEN
Total Recoverable	Prep	3005A			343053	02/22/17 10:25	RJB	TAL PEN
Total Recoverable	Analysis	6020		5	343697	02/24/17 11:17	DRE	TAL PEN
Total Recoverable	Prep	3005A	RA		343053	02/22/17 10:25	RJB	TAL PEN
Total Recoverable	Analysis	6020	RA	5	344230	03/01/17 13:12	DRE	TAL PEN
Total/NA	Prep	7470A			343356	02/25/17 12:44	DN1	TAL PEN
Total/NA	Analysis	7470A		1	343808	02/27/17 14:26	JAP	TAL PEN
Total/NA	Analysis	SM 2540C		1	342935	02/20/17 10:44	RRC	TAL PEN

Client Sample ID: SGWC-14

Lab Sample ID: 400-134140-22

Date Collected: 02/15/17 14:07

Matrix: Water

Date Received: 02/17/17 08:54

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	300.0		1	343698	02/25/17 02:53	KH1	TAL PEN
Total/NA	Analysis	300.0		5	343698	02/25/17 05:56	KH1	TAL PEN
Total Recoverable	Prep	3005A			343053	02/22/17 10:25	RJB	TAL PEN
Total Recoverable	Analysis	6020		5	343697	02/24/17 11:40	DRE	TAL PEN
Total Recoverable	Prep	3005A	RA		343053	02/22/17 10:25	RJB	TAL PEN

TestAmerica Pensacola

Lab Chronicle

Client: Southern Company
Project/Site: CCR Plant Scherer

TestAmerica Job ID: 400-134140-1
SDG: Ash Pond

Client Sample ID: SGWC-14

Lab Sample ID: 400-134140-22

Date Collected: 02/15/17 14:07

Matrix: Water

Date Received: 02/17/17 08:54

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total Recoverable	Analysis	6020	RA	5	344230	03/01/17 13:16	DRE	TAL PEN
Total/NA	Prep	7470A			343356	02/25/17 12:44	DN1	TAL PEN
Total/NA	Analysis	7470A		1	343808	02/27/17 14:28	JAP	TAL PEN
Total/NA	Analysis	SM 2540C		1	342935	02/20/17 10:44	RRC	TAL PEN

Client Sample ID: SGWC-15

Lab Sample ID: 400-134140-23

Date Collected: 02/15/17 16:00

Matrix: Water

Date Received: 02/17/17 08:54

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	300.0		1	343698	02/25/17 03:16	KH1	TAL PEN
Total/NA	Analysis	300.0		5	343698	02/25/17 06:18	KH1	TAL PEN
Total Recoverable	Prep	3005A			343053	02/22/17 10:25	RJB	TAL PEN
Total Recoverable	Analysis	6020		5	343697	02/24/17 11:44	DRE	TAL PEN
Total Recoverable	Prep	3005A	RA		343053	02/22/17 10:25	RJB	TAL PEN
Total Recoverable	Analysis	6020	RA	5	344230	03/01/17 13:21	DRE	TAL PEN
Total/NA	Prep	7470A			343356	02/25/17 12:44	DN1	TAL PEN
Total/NA	Analysis	7470A		1	343808	02/27/17 14:40	JAP	TAL PEN
Total/NA	Analysis	SM 2540C		1	342935	02/20/17 10:44	RRC	TAL PEN

Client Sample ID: SGWC-23

Lab Sample ID: 400-134140-24

Date Collected: 02/15/17 15:33

Matrix: Water

Date Received: 02/17/17 08:54

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	300.0		1	343781	02/27/17 16:43	KH1	TAL PEN
Total/NA	Analysis	300.0		5	343809	02/28/17 09:28	KH1	TAL PEN
Total Recoverable	Prep	3005A			343053	02/22/17 10:25	RJB	TAL PEN
Total Recoverable	Analysis	6020		5	343697	02/24/17 12:11	DRE	TAL PEN
Total Recoverable	Prep	3005A	RA		343053	02/22/17 10:25	RJB	TAL PEN
Total Recoverable	Analysis	6020	RA	5	344230	03/01/17 13:25	DRE	TAL PEN
Total/NA	Prep	7470A			343356	02/25/17 12:44	DN1	TAL PEN
Total/NA	Analysis	7470A		1	343808	02/27/17 14:42	JAP	TAL PEN
Total/NA	Analysis	SM 2540C		1	342935	02/20/17 10:44	RRC	TAL PEN

Client Sample ID: SGWC-19

Lab Sample ID: 400-134140-25

Date Collected: 02/16/17 11:56

Matrix: Water

Date Received: 02/18/17 08:31

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	300.0		1	343781	02/27/17 17:06	KH1	TAL PEN
Total/NA	Analysis	300.0		5	343809	02/28/17 09:50	KH1	TAL PEN

TestAmerica Pensacola

Lab Chronicle

Client: Southern Company
Project/Site: CCR Plant Scherer

TestAmerica Job ID: 400-134140-1
SDG: Ash Pond

Client Sample ID: SGWC-19

Lab Sample ID: 400-134140-25

Date Collected: 02/16/17 11:56

Matrix: Water

Date Received: 02/18/17 08:31

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total Recoverable	Prep	3005A			343053	02/22/17 10:25	RJB	TAL PEN
Total Recoverable	Analysis	6020		5	343697	02/24/17 12:16	DRE	TAL PEN
Total Recoverable	Prep	3005A	DL		343053	02/22/17 10:25	RJB	TAL PEN
Total Recoverable	Analysis	6020	DL	25	343697	02/24/17 19:31	DRE	TAL PEN
Total Recoverable	Prep	3005A	RA		343053	02/22/17 10:25	RJB	TAL PEN
Total Recoverable	Analysis	6020	RA	5	344230	03/01/17 13:30	DRE	TAL PEN
Total/NA	Prep	7470A			343356	02/25/17 12:44	DN1	TAL PEN
Total/NA	Analysis	7470A		1	343808	02/27/17 14:43	JAP	TAL PEN
Total/NA	Analysis	SM 2540C		1	343102	02/21/17 16:12	TET	TAL PEN

Client Sample ID: SGWC-9

Lab Sample ID: 400-134140-26

Date Collected: 02/16/17 14:08

Matrix: Water

Date Received: 02/18/17 08:31

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	300.0		1	343781	02/27/17 17:29	KH1	TAL PEN
Total/NA	Analysis	300.0		10	343914	02/28/17 11:22	KH1	TAL PEN
Total Recoverable	Prep	3005A			343053	02/22/17 10:25	RJB	TAL PEN
Total Recoverable	Analysis	6020		5	343697	02/24/17 12:26	DRE	TAL PEN
Total Recoverable	Prep	3005A	RA		343053	02/22/17 10:25	RJB	TAL PEN
Total Recoverable	Analysis	6020	RA	5	344230	03/01/17 13:52	DRE	TAL PEN
Total/NA	Prep	7470A			343356	02/25/17 12:44	DN1	TAL PEN
Total/NA	Analysis	7470A		1	343808	02/27/17 14:45	JAP	TAL PEN
Total/NA	Analysis	SM 2540C		1	343102	02/21/17 16:12	TET	TAL PEN

Client Sample ID: SGWC-16

Lab Sample ID: 400-134140-27

Date Collected: 02/16/17 10:10

Matrix: Water

Date Received: 02/18/17 08:31

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	300.0		1	343781	02/27/17 17:52	KH1	TAL PEN
Total Recoverable	Prep	3005A			343053	02/22/17 10:25	RJB	TAL PEN
Total Recoverable	Analysis	6020		5	343697	02/24/17 12:31	DRE	TAL PEN
Total Recoverable	Prep	3005A	RA		343053	02/22/17 10:25	RJB	TAL PEN
Total Recoverable	Analysis	6020	RA	5	344230	03/01/17 13:57	DRE	TAL PEN
Total/NA	Prep	7470A			343356	02/25/17 12:44	DN1	TAL PEN
Total/NA	Analysis	7470A		1	343808	02/27/17 14:46	JAP	TAL PEN
Total/NA	Analysis	SM 2540C		1	343408	02/23/17 15:54	TET	TAL PEN

Lab Chronicle

Client: Southern Company
Project/Site: CCR Plant Scherer

TestAmerica Job ID: 400-134140-1
SDG: Ash Pond

Client Sample ID: FD-3(AP)

Lab Sample ID: 400-134140-28

Date Collected: 02/16/17 00:00

Matrix: Water

Date Received: 02/18/17 08:31

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	300.0		1	343781	02/27/17 18:14	KH1	TAL PEN
Total Recoverable	Prep	3005A			343053	02/22/17 10:25	RJB	TAL PEN
Total Recoverable	Analysis	6020		5	343697	02/24/17 12:35	DRE	TAL PEN
Total Recoverable	Prep	3005A	RA		343053	02/22/17 10:25	RJB	TAL PEN
Total Recoverable	Analysis	6020	RA	5	344230	03/01/17 14:01	DRE	TAL PEN
Total/NA	Prep	7470A			343356	02/25/17 12:44	DN1	TAL PEN
Total/NA	Analysis	7470A		1	343808	02/27/17 14:47	JAP	TAL PEN
Total/NA	Analysis	SM 2540C		1	342935	02/20/17 10:44	RRC	TAL PEN

Client Sample ID: SGWC-22

Lab Sample ID: 400-134140-29

Date Collected: 02/16/17 10:22

Matrix: Water

Date Received: 02/18/17 08:31

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	300.0		1	343781	02/27/17 19:00	KH1	TAL PEN
Total/NA	Analysis	300.0		5	343914	02/28/17 12:30	KH1	TAL PEN
Total Recoverable	Prep	3005A			343053	02/22/17 10:25	RJB	TAL PEN
Total Recoverable	Analysis	6020		5	343697	02/24/17 12:40	DRE	TAL PEN
Total Recoverable	Prep	3005A	RA		343053	02/22/17 10:25	RJB	TAL PEN
Total Recoverable	Analysis	6020	RA	5	344230	03/01/17 14:06	DRE	TAL PEN
Total/NA	Prep	7470A			343356	02/25/17 12:44	DN1	TAL PEN
Total/NA	Analysis	7470A		1	343808	02/27/17 14:48	JAP	TAL PEN
Total/NA	Analysis	SM 2540C		1	343408	02/23/17 15:54	TET	TAL PEN

Client Sample ID: FB-3(AP)

Lab Sample ID: 400-134140-30

Date Collected: 02/16/17 10:30

Matrix: Water

Date Received: 02/18/17 08:31

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	300.0		1	343781	02/27/17 19:23	KH1	TAL PEN
Total Recoverable	Prep	3005A			343053	02/22/17 10:25	RJB	TAL PEN
Total Recoverable	Analysis	6020		5	343697	02/24/17 12:44	DRE	TAL PEN
Total Recoverable	Prep	3005A	RA		343053	02/22/17 10:25	RJB	TAL PEN
Total Recoverable	Analysis	6020	RA	5	344230	03/01/17 14:10	DRE	TAL PEN
Total/NA	Prep	7470A			343356	02/25/17 12:44	DN1	TAL PEN
Total/NA	Analysis	7470A		1	343808	02/27/17 14:49	JAP	TAL PEN
Total/NA	Analysis	SM 2540C		1	343408	02/23/17 15:54	TET	TAL PEN

Lab Chronicle

Client: Southern Company
Project/Site: CCR Plant Scherer

TestAmerica Job ID: 400-134140-1
SDG: Ash Pond

Client Sample ID: SGWC-21

Lab Sample ID: 400-134140-31

Date Collected: 02/16/17 11:48

Matrix: Water

Date Received: 02/18/17 08:31

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	300.0		1	343781	02/27/17 19:46	KH1	TAL PEN
Total/NA	Analysis	300.0		5	343914	02/28/17 12:53	KH1	TAL PEN
Total Recoverable	Prep	3005A			343053	02/22/17 10:25	RJB	TAL PEN
Total Recoverable	Analysis	6020		5	343697	02/24/17 12:49	DRE	TAL PEN
Total Recoverable	Prep	3005A	RA		343053	02/22/17 10:25	RJB	TAL PEN
Total Recoverable	Analysis	6020	RA	5	344230	03/01/17 14:15	DRE	TAL PEN
Total/NA	Prep	7470A			343356	02/25/17 12:44	DN1	TAL PEN
Total/NA	Analysis	7470A		1	343808	02/27/17 14:51	JAP	TAL PEN
Total/NA	Analysis	SM 2540C		1	343408	02/23/17 15:54	TET	TAL PEN

Client Sample ID: SGWC-20

Lab Sample ID: 400-134140-32

Date Collected: 02/16/17 13:32

Matrix: Water

Date Received: 02/18/17 08:31

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	300.0		1	343781	02/27/17 20:54	KH1	TAL PEN
Total/NA	Analysis	300.0		5	343914	02/28/17 14:01	KH1	TAL PEN
Total Recoverable	Prep	3005A			343053	02/22/17 10:25	RJB	TAL PEN
Total Recoverable	Analysis	6020		5	343697	02/24/17 12:54	DRE	TAL PEN
Total Recoverable	Prep	3005A	DL		343053	02/22/17 10:25	RJB	TAL PEN
Total Recoverable	Analysis	6020	DL	25	343697	02/24/17 19:35	DRE	TAL PEN
Total Recoverable	Prep	3005A	RA		343053	02/22/17 10:25	RJB	TAL PEN
Total Recoverable	Analysis	6020	RA	5	344230	03/01/17 14:19	DRE	TAL PEN
Total/NA	Prep	7470A			343356	02/25/17 12:44	DN1	TAL PEN
Total/NA	Analysis	7470A		1	343808	02/27/17 14:58	JAP	TAL PEN
Total/NA	Analysis	SM 2540C		1	343408	02/23/17 15:54	TET	TAL PEN

Client Sample ID: SGWC-18

Lab Sample ID: 400-134140-33

Date Collected: 02/16/17 15:11

Matrix: Water

Date Received: 02/18/17 08:31

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	300.0		1	343781	02/27/17 21:17	KH1	TAL PEN
Total/NA	Analysis	300.0		10	343914	02/28/17 14:24	KH1	TAL PEN
Total Recoverable	Prep	3005A			343053	02/22/17 10:25	RJB	TAL PEN
Total Recoverable	Analysis	6020		5	343697	02/24/17 12:58	DRE	TAL PEN
Total Recoverable	Prep	3005A	DL		343053	02/22/17 10:25	RJB	TAL PEN
Total Recoverable	Analysis	6020	DL	25	343697	02/24/17 19:40	DRE	TAL PEN
Total Recoverable	Prep	3005A	RA		343053	02/22/17 10:25	RJB	TAL PEN
Total Recoverable	Analysis	6020	RA	5	344230	03/01/17 14:24	DRE	TAL PEN
Total/NA	Prep	7470A			343356	02/25/17 12:44	DN1	TAL PEN
Total/NA	Analysis	7470A		1	343808	02/27/17 15:00	JAP	TAL PEN

TestAmerica Pensacola

Lab Chronicle

Client: Southern Company
Project/Site: CCR Plant Scherer

TestAmerica Job ID: 400-134140-1
SDG: Ash Pond

Client Sample ID: SGWC-18

Lab Sample ID: 400-134140-33

Date Collected: 02/16/17 15:11

Matrix: Water

Date Received: 02/18/17 08:31

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	SM 2540C		1	343408	02/23/17 15:54	TET	TAL PEN

Client Sample ID: EB-3(AP)

Lab Sample ID: 400-134140-34

Date Collected: 02/16/17 08:20

Matrix: Water

Date Received: 02/18/17 08:31

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	300.0		1	343781	02/27/17 21:40	KH1	TAL PEN
Total Recoverable	Prep	3005A			343053	02/22/17 10:25	RJB	TAL PEN
Total Recoverable	Analysis	6020		5	343697	02/24/17 13:25	DRE	TAL PEN
Total Recoverable	Prep	3005A	RA		343053	02/22/17 10:25	RJB	TAL PEN
Total Recoverable	Analysis	6020	RA	5	344230	03/01/17 14:28	DRE	TAL PEN
Total/NA	Prep	7470A			343356	02/25/17 12:44	DN1	TAL PEN
Total/NA	Analysis	7470A		1	343808	02/27/17 15:01	JAP	TAL PEN
Total/NA	Analysis	SM 2540C		1	343408	02/23/17 15:54	TET	TAL PEN

Laboratory References:

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

QC Association Summary

Client: Southern Company
Project/Site: CCR Plant Scherer

TestAmerica Job ID: 400-134140-1
SDG: Ash Pond

HPLC/IC

Analysis Batch: 343279

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-134140-2	FB-1(AP)	Total/NA	Water	300.0	
400-134140-3	SGWC-6	Total/NA	Water	300.0	
400-134140-4	SGWC-8	Total/NA	Water	300.0	
400-134140-5	SGWA-5	Total/NA	Water	300.0	
400-134140-6	FD-1(AP)	Total/NA	Water	300.0	
400-134140-7	SGWA-4	Total/NA	Water	300.0	
400-134140-8	SGWC-7	Total/NA	Water	300.0	
400-134140-9	SGWA-24	Total/NA	Water	300.0	
400-134140-10	SGWA-1	Total/NA	Water	300.0	
400-134140-11	SGWA-2	Total/NA	Water	300.0	
MB 400-343279/4	Method Blank	Total/NA	Water	300.0	
LCS 400-343279/5	Lab Control Sample	Total/NA	Water	300.0	
LCSD 400-343279/6	Lab Control Sample Dup	Total/NA	Water	300.0	
460-128494-H-1 MS	Matrix Spike	Total/NA	Water	300.0	
460-128494-H-1 MSD	Matrix Spike Duplicate	Total/NA	Water	300.0	

Analysis Batch: 343698

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-134140-1	SGWA-3	Total/NA	Water	300.0	
400-134140-4	SGWC-8	Total/NA	Water	300.0	
400-134140-12	EB-1(AP)	Total/NA	Water	300.0	
400-134140-13	SGWA-25	Total/NA	Water	300.0	
400-134140-14	SGWC-10	Total/NA	Water	300.0	
400-134140-15	EB-2(AP)	Total/NA	Water	300.0	
400-134140-16	SGWC-12	Total/NA	Water	300.0	
400-134140-17	FB-2(AP)	Total/NA	Water	300.0	
400-134140-18	SGWC-11	Total/NA	Water	300.0	
400-134140-19	SGWC-17	Total/NA	Water	300.0	
400-134140-19	SGWC-17	Total/NA	Water	300.0	
400-134140-20	FD-2(AP)	Total/NA	Water	300.0	
400-134140-20	FD-2(AP)	Total/NA	Water	300.0	
400-134140-21	SGWC-13	Total/NA	Water	300.0	
400-134140-21	SGWC-13	Total/NA	Water	300.0	
400-134140-22	SGWC-14	Total/NA	Water	300.0	
400-134140-22	SGWC-14	Total/NA	Water	300.0	
400-134140-23	SGWC-15	Total/NA	Water	300.0	
400-134140-23	SGWC-15	Total/NA	Water	300.0	
MB 400-343698/10	Method Blank	Total/NA	Water	300.0	
LCS 400-343698/11	Lab Control Sample	Total/NA	Water	300.0	
LCSD 400-343698/12	Lab Control Sample Dup	Total/NA	Water	300.0	
400-134140-13 MS	SGWA-25	Total/NA	Water	300.0	
400-134140-13 MSD	SGWA-25	Total/NA	Water	300.0	

Analysis Batch: 343781

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-134140-24	SGWC-23	Total/NA	Water	300.0	
400-134140-25	SGWC-19	Total/NA	Water	300.0	
400-134140-26	SGWC-9	Total/NA	Water	300.0	
400-134140-27	SGWC-16	Total/NA	Water	300.0	
400-134140-28	FD-3(AP)	Total/NA	Water	300.0	
400-134140-29	SGWC-22	Total/NA	Water	300.0	

TestAmerica Pensacola

QC Association Summary

Client: Southern Company
Project/Site: CCR Plant Scherer

TestAmerica Job ID: 400-134140-1
SDG: Ash Pond

HPLC/IC (Continued)

Analysis Batch: 343781 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-134140-30	FB-3(AP)	Total/NA	Water	300.0	
400-134140-31	SGWC-21	Total/NA	Water	300.0	
400-134140-32	SGWC-20	Total/NA	Water	300.0	
400-134140-33	SGWC-18	Total/NA	Water	300.0	
400-134140-34	EB-3(AP)	Total/NA	Water	300.0	
MB 400-343781/4	Method Blank	Total/NA	Water	300.0	
LCS 400-343781/5	Lab Control Sample	Total/NA	Water	300.0	
LCSD 400-343781/6	Lab Control Sample Dup	Total/NA	Water	300.0	
400-134102-F-13 MS	Matrix Spike	Total/NA	Water	300.0	
400-134102-F-13 MSD	Matrix Spike Duplicate	Total/NA	Water	300.0	

Analysis Batch: 343809

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-134140-24	SGWC-23	Total/NA	Water	300.0	
400-134140-25	SGWC-19	Total/NA	Water	300.0	
MB 400-343809/31	Method Blank	Total/NA	Water	300.0	
LCS 400-343809/32	Lab Control Sample	Total/NA	Water	300.0	
LCSD 400-343809/33	Lab Control Sample Dup	Total/NA	Water	300.0	
400-134170-D-2 MS	Matrix Spike	Total/NA	Water	300.0	
400-134170-D-2 MSD	Matrix Spike Duplicate	Total/NA	Water	300.0	

Analysis Batch: 343914

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-134140-26	SGWC-9	Total/NA	Water	300.0	
400-134140-29	SGWC-22	Total/NA	Water	300.0	
400-134140-31	SGWC-21	Total/NA	Water	300.0	
400-134140-32	SGWC-20	Total/NA	Water	300.0	
400-134140-33	SGWC-18	Total/NA	Water	300.0	
MB 400-343914/4	Method Blank	Total/NA	Water	300.0	
LCS 400-343914/5	Lab Control Sample	Total/NA	Water	300.0	
LCSD 400-343914/6	Lab Control Sample Dup	Total/NA	Water	300.0	
400-134140-26 MS	SGWC-9	Total/NA	Water	300.0	
400-134140-26 MSD	SGWC-9	Total/NA	Water	300.0	

Metals

Prep Batch: 343051

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-134140-1	SGWA-3	Total Recoverable	Water	3005A	
400-134140-2	FB-1(AP)	Total Recoverable	Water	3005A	
400-134140-3	SGWC-6	Total Recoverable	Water	3005A	
400-134140-4	SGWC-8	Total Recoverable	Water	3005A	
400-134140-5	SGWA-5	Total Recoverable	Water	3005A	
400-134140-6	FD-1(AP)	Total Recoverable	Water	3005A	
400-134140-7	SGWA-4	Total Recoverable	Water	3005A	
400-134140-8	SGWC-7	Total Recoverable	Water	3005A	
400-134140-9	SGWA-24	Total Recoverable	Water	3005A	
400-134140-10	SGWA-1	Total Recoverable	Water	3005A	
400-134140-11	SGWA-2	Total Recoverable	Water	3005A	
400-134140-12	EB-1(AP)	Total Recoverable	Water	3005A	

TestAmerica Pensacola

QC Association Summary

Client: Southern Company
Project/Site: CCR Plant Scherer

TestAmerica Job ID: 400-134140-1
SDG: Ash Pond

Metals (Continued)

Prep Batch: 343051 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-134140-13	SGWA-25	Total Recoverable	Water	3005A	
400-134140-14	SGWC-10	Total Recoverable	Water	3005A	
400-134140-15	EB-2(AP)	Total Recoverable	Water	3005A	
400-134140-16	SGWC-12	Total Recoverable	Water	3005A	
400-134140-17	FB-2(AP)	Total Recoverable	Water	3005A	
400-134140-18	SGWC-11	Total Recoverable	Water	3005A	
400-134140-19	SGWC-17	Total Recoverable	Water	3005A	
MB 400-343051/1-A ^5	Method Blank	Total Recoverable	Water	3005A	
LCS 400-343051/2-A	Lab Control Sample	Total Recoverable	Water	3005A	
400-134140-1 MS	SGWA-3	Total Recoverable	Water	3005A	
400-134140-1 MSD	SGWA-3	Total Recoverable	Water	3005A	

Prep Batch: 343053

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-134140-20	FD-2(AP)	Total Recoverable	Water	3005A	
400-134140-20 - RA	FD-2(AP)	Total Recoverable	Water	3005A	
400-134140-21	SGWC-13	Total Recoverable	Water	3005A	
400-134140-21 - RA	SGWC-13	Total Recoverable	Water	3005A	
400-134140-22	SGWC-14	Total Recoverable	Water	3005A	
400-134140-22 - RA	SGWC-14	Total Recoverable	Water	3005A	
400-134140-23	SGWC-15	Total Recoverable	Water	3005A	
400-134140-23 - RA	SGWC-15	Total Recoverable	Water	3005A	
400-134140-24 - RA	SGWC-23	Total Recoverable	Water	3005A	
400-134140-24	SGWC-23	Total Recoverable	Water	3005A	
400-134140-25 - RA	SGWC-19	Total Recoverable	Water	3005A	
400-134140-25 - DL	SGWC-19	Total Recoverable	Water	3005A	
400-134140-25	SGWC-19	Total Recoverable	Water	3005A	
400-134140-26	SGWC-9	Total Recoverable	Water	3005A	
400-134140-26 - RA	SGWC-9	Total Recoverable	Water	3005A	
400-134140-27	SGWC-16	Total Recoverable	Water	3005A	
400-134140-27 - RA	SGWC-16	Total Recoverable	Water	3005A	
400-134140-28 - RA	FD-3(AP)	Total Recoverable	Water	3005A	
400-134140-28	FD-3(AP)	Total Recoverable	Water	3005A	
400-134140-29 - RA	SGWC-22	Total Recoverable	Water	3005A	
400-134140-29	SGWC-22	Total Recoverable	Water	3005A	
400-134140-30	FB-3(AP)	Total Recoverable	Water	3005A	
400-134140-30 - RA	FB-3(AP)	Total Recoverable	Water	3005A	
400-134140-31	SGWC-21	Total Recoverable	Water	3005A	
400-134140-31 - RA	SGWC-21	Total Recoverable	Water	3005A	
400-134140-32 - DL	SGWC-20	Total Recoverable	Water	3005A	
400-134140-32	SGWC-20	Total Recoverable	Water	3005A	
400-134140-32 - RA	SGWC-20	Total Recoverable	Water	3005A	
400-134140-33 - RA	SGWC-18	Total Recoverable	Water	3005A	
400-134140-33	SGWC-18	Total Recoverable	Water	3005A	
400-134140-33 - DL	SGWC-18	Total Recoverable	Water	3005A	
400-134140-34	EB-3(AP)	Total Recoverable	Water	3005A	
400-134140-34 - RA	EB-3(AP)	Total Recoverable	Water	3005A	
MB 400-343053/1-A ^5	Method Blank	Total Recoverable	Water	3005A	
LCS 400-343053/2-A	Lab Control Sample	Total Recoverable	Water	3005A	
400-134140-21 MS	SGWC-13	Total Recoverable	Water	3005A	
400-134140-21 MSD	SGWC-13	Total Recoverable	Water	3005A	

TestAmerica Pensacola

QC Association Summary

Client: Southern Company
Project/Site: CCR Plant Scherer

TestAmerica Job ID: 400-134140-1
SDG: Ash Pond

Prep Batch: 343355

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-134140-1	SGWA-3	Total/NA	Water	7470A	
400-134140-2	FB-1(AP)	Total/NA	Water	7470A	
400-134140-3	SGWC-6	Total/NA	Water	7470A	
400-134140-4	SGWC-8	Total/NA	Water	7470A	
400-134140-5	SGWA-5	Total/NA	Water	7470A	
400-134140-6	FD-1(AP)	Total/NA	Water	7470A	
400-134140-7	SGWA-4	Total/NA	Water	7470A	
400-134140-8	SGWC-7	Total/NA	Water	7470A	
400-134140-9	SGWA-24	Total/NA	Water	7470A	
400-134140-10	SGWA-1	Total/NA	Water	7470A	
400-134140-11	SGWA-2	Total/NA	Water	7470A	
400-134140-12	EB-1(AP)	Total/NA	Water	7470A	
400-134140-13	SGWA-25	Total/NA	Water	7470A	
400-134140-14	SGWC-10	Total/NA	Water	7470A	
400-134140-15	EB-2(AP)	Total/NA	Water	7470A	
400-134140-16	SGWC-12	Total/NA	Water	7470A	
400-134140-17	FB-2(AP)	Total/NA	Water	7470A	
400-134140-18	SGWC-11	Total/NA	Water	7470A	
400-134140-19	SGWC-17	Total/NA	Water	7470A	
400-134140-20	FD-2(AP)	Total/NA	Water	7470A	
MB 400-343355/14-A	Method Blank	Total/NA	Water	7470A	
LCS 400-343355/15-A	Lab Control Sample	Total/NA	Water	7470A	
400-134140-2 MS	FB-1(AP)	Total/NA	Water	7470A	
400-134140-2 MSD	FB-1(AP)	Total/NA	Water	7470A	

Prep Batch: 343356

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-134140-21	SGWC-13	Total/NA	Water	7470A	
400-134140-22	SGWC-14	Total/NA	Water	7470A	
400-134140-23	SGWC-15	Total/NA	Water	7470A	
400-134140-24	SGWC-23	Total/NA	Water	7470A	
400-134140-25	SGWC-19	Total/NA	Water	7470A	
400-134140-26	SGWC-9	Total/NA	Water	7470A	
400-134140-27	SGWC-16	Total/NA	Water	7470A	
400-134140-28	FD-3(AP)	Total/NA	Water	7470A	
400-134140-29	SGWC-22	Total/NA	Water	7470A	
400-134140-30	FB-3(AP)	Total/NA	Water	7470A	
400-134140-31	SGWC-21	Total/NA	Water	7470A	
400-134140-32	SGWC-20	Total/NA	Water	7470A	
400-134140-33	SGWC-18	Total/NA	Water	7470A	
400-134140-34	EB-3(AP)	Total/NA	Water	7470A	
MB 400-343356/14-A	Method Blank	Total/NA	Water	7470A	
LCS 400-343356/15-A	Lab Control Sample	Total/NA	Water	7470A	
400-134140-22 MS	SGWC-14	Total/NA	Water	7470A	
400-134140-22 MSD	SGWC-14	Total/NA	Water	7470A	

Analysis Batch: 343369

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-134140-1	SGWA-3	Total Recoverable	Water	6020	343051
400-134140-2	FB-1(AP)	Total Recoverable	Water	6020	343051
400-134140-3	SGWC-6	Total Recoverable	Water	6020	343051
400-134140-4	SGWC-8	Total Recoverable	Water	6020	343051
400-134140-5	SGWA-5	Total Recoverable	Water	6020	343051

TestAmerica Pensacola

QC Association Summary

Client: Southern Company
Project/Site: CCR Plant Scherer

TestAmerica Job ID: 400-134140-1
SDG: Ash Pond

Metals (Continued)

Analysis Batch: 343369 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-134140-6	FD-1(AP)	Total Recoverable	Water	6020	343051
400-134140-7	SGWA-4	Total Recoverable	Water	6020	343051
400-134140-8	SGWC-7	Total Recoverable	Water	6020	343051
400-134140-9	SGWA-24	Total Recoverable	Water	6020	343051
400-134140-10	SGWA-1	Total Recoverable	Water	6020	343051
400-134140-11	SGWA-2	Total Recoverable	Water	6020	343051
400-134140-12	EB-1(AP)	Total Recoverable	Water	6020	343051
400-134140-13	SGWA-25	Total Recoverable	Water	6020	343051
400-134140-14	SGWC-10	Total Recoverable	Water	6020	343051
400-134140-15	EB-2(AP)	Total Recoverable	Water	6020	343051
400-134140-16	SGWC-12	Total Recoverable	Water	6020	343051
400-134140-17	FB-2(AP)	Total Recoverable	Water	6020	343051
400-134140-18	SGWC-11	Total Recoverable	Water	6020	343051
400-134140-19	SGWC-17	Total Recoverable	Water	6020	343051
MB 400-343051/1-A ^5	Method Blank	Total Recoverable	Water	6020	343051
LCS 400-343051/2-A	Lab Control Sample	Total Recoverable	Water	6020	343051
400-134140-1 MS	SGWA-3	Total Recoverable	Water	6020	343051
400-134140-1 MSD	SGWA-3	Total Recoverable	Water	6020	343051

Analysis Batch: 343697

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-134140-20	FD-2(AP)	Total Recoverable	Water	6020	343053
400-134140-21	SGWC-13	Total Recoverable	Water	6020	343053
400-134140-22	SGWC-14	Total Recoverable	Water	6020	343053
400-134140-23	SGWC-15	Total Recoverable	Water	6020	343053
400-134140-24	SGWC-23	Total Recoverable	Water	6020	343053
400-134140-25	SGWC-19	Total Recoverable	Water	6020	343053
400-134140-25 - DL	SGWC-19	Total Recoverable	Water	6020	343053
400-134140-26	SGWC-9	Total Recoverable	Water	6020	343053
400-134140-27	SGWC-16	Total Recoverable	Water	6020	343053
400-134140-28	FD-3(AP)	Total Recoverable	Water	6020	343053
400-134140-29	SGWC-22	Total Recoverable	Water	6020	343053
400-134140-30	FB-3(AP)	Total Recoverable	Water	6020	343053
400-134140-31	SGWC-21	Total Recoverable	Water	6020	343053
400-134140-32	SGWC-20	Total Recoverable	Water	6020	343053
400-134140-32 - DL	SGWC-20	Total Recoverable	Water	6020	343053
400-134140-33	SGWC-18	Total Recoverable	Water	6020	343053
400-134140-33 - DL	SGWC-18	Total Recoverable	Water	6020	343053
400-134140-34	EB-3(AP)	Total Recoverable	Water	6020	343053
MB 400-343053/1-A ^5	Method Blank	Total Recoverable	Water	6020	343053
LCS 400-343053/2-A	Lab Control Sample	Total Recoverable	Water	6020	343053
400-134140-21 MS	SGWC-13	Total Recoverable	Water	6020	343053
400-134140-21 MSD	SGWC-13	Total Recoverable	Water	6020	343053

Analysis Batch: 343808

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-134140-1	SGWA-3	Total/NA	Water	7470A	343355
400-134140-2	FB-1(AP)	Total/NA	Water	7470A	343355
400-134140-3	SGWC-6	Total/NA	Water	7470A	343355
400-134140-4	SGWC-8	Total/NA	Water	7470A	343355
400-134140-5	SGWA-5	Total/NA	Water	7470A	343355

TestAmerica Pensacola

QC Association Summary

Client: Southern Company
Project/Site: CCR Plant Scherer

TestAmerica Job ID: 400-134140-1
SDG: Ash Pond

Metals (Continued)

Analysis Batch: 343808 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-134140-6	FD-1(AP)	Total/NA	Water	7470A	343355
400-134140-7	SGWA-4	Total/NA	Water	7470A	343355
400-134140-8	SGWC-7	Total/NA	Water	7470A	343355
400-134140-9	SGWA-24	Total/NA	Water	7470A	343355
400-134140-10	SGWA-1	Total/NA	Water	7470A	343355
400-134140-11	SGWA-2	Total/NA	Water	7470A	343355
400-134140-12	EB-1(AP)	Total/NA	Water	7470A	343355
400-134140-13	SGWA-25	Total/NA	Water	7470A	343355
400-134140-14	SGWC-10	Total/NA	Water	7470A	343355
400-134140-15	EB-2(AP)	Total/NA	Water	7470A	343355
400-134140-16	SGWC-12	Total/NA	Water	7470A	343355
400-134140-17	FB-2(AP)	Total/NA	Water	7470A	343355
400-134140-18	SGWC-11	Total/NA	Water	7470A	343355
400-134140-19	SGWC-17	Total/NA	Water	7470A	343355
400-134140-20	FD-2(AP)	Total/NA	Water	7470A	343355
400-134140-21	SGWC-13	Total/NA	Water	7470A	343356
400-134140-22	SGWC-14	Total/NA	Water	7470A	343356
400-134140-23	SGWC-15	Total/NA	Water	7470A	343356
400-134140-24	SGWC-23	Total/NA	Water	7470A	343356
400-134140-25	SGWC-19	Total/NA	Water	7470A	343356
400-134140-26	SGWC-9	Total/NA	Water	7470A	343356
400-134140-27	SGWC-16	Total/NA	Water	7470A	343356
400-134140-28	FD-3(AP)	Total/NA	Water	7470A	343356
400-134140-29	SGWC-22	Total/NA	Water	7470A	343356
400-134140-30	FB-3(AP)	Total/NA	Water	7470A	343356
400-134140-31	SGWC-21	Total/NA	Water	7470A	343356
400-134140-32	SGWC-20	Total/NA	Water	7470A	343356
400-134140-33	SGWC-18	Total/NA	Water	7470A	343356
400-134140-34	EB-3(AP)	Total/NA	Water	7470A	343356
MB 400-343355/14-A	Method Blank	Total/NA	Water	7470A	343355
MB 400-343356/14-A	Method Blank	Total/NA	Water	7470A	343356
LCS 400-343355/15-A	Lab Control Sample	Total/NA	Water	7470A	343355
LCS 400-343356/15-A	Lab Control Sample	Total/NA	Water	7470A	343356
400-134140-2 MS	FB-1(AP)	Total/NA	Water	7470A	343355
400-134140-2 MSD	FB-1(AP)	Total/NA	Water	7470A	343355
400-134140-22 MS	SGWC-14	Total/NA	Water	7470A	343356
400-134140-22 MSD	SGWC-14	Total/NA	Water	7470A	343356

Analysis Batch: 344230

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-134140-20 - RA	FD-2(AP)	Total Recoverable	Water	6020	343053
400-134140-21 - RA	SGWC-13	Total Recoverable	Water	6020	343053
400-134140-22 - RA	SGWC-14	Total Recoverable	Water	6020	343053
400-134140-23 - RA	SGWC-15	Total Recoverable	Water	6020	343053
400-134140-24 - RA	SGWC-23	Total Recoverable	Water	6020	343053
400-134140-25 - RA	SGWC-19	Total Recoverable	Water	6020	343053
400-134140-26 - RA	SGWC-9	Total Recoverable	Water	6020	343053
400-134140-27 - RA	SGWC-16	Total Recoverable	Water	6020	343053
400-134140-28 - RA	FD-3(AP)	Total Recoverable	Water	6020	343053
400-134140-29 - RA	SGWC-22	Total Recoverable	Water	6020	343053
400-134140-30 - RA	FB-3(AP)	Total Recoverable	Water	6020	343053

TestAmerica Pensacola

QC Association Summary

Client: Southern Company
Project/Site: CCR Plant Scherer

TestAmerica Job ID: 400-134140-1
SDG: Ash Pond

Metals (Continued)

Analysis Batch: 344230 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-134140-31 - RA	SGWC-21	Total Recoverable	Water	6020	343053
400-134140-32 - RA	SGWC-20	Total Recoverable	Water	6020	343053
400-134140-33 - RA	SGWC-18	Total Recoverable	Water	6020	343053
400-134140-34 - RA	EB-3(AP)	Total Recoverable	Water	6020	343053
MB 400-343053/1-A ^5	Method Blank	Total Recoverable	Water	6020	343053
LCS 400-343053/2-A	Lab Control Sample	Total Recoverable	Water	6020	343053

General Chemistry

Analysis Batch: 342879

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-134140-1	SGWA-3	Total/NA	Water	SM 2540C	
400-134140-2	FB-1(AP)	Total/NA	Water	SM 2540C	
400-134140-3	SGWC-6	Total/NA	Water	SM 2540C	
400-134140-4	SGWC-8	Total/NA	Water	SM 2540C	
400-134140-5	SGWA-5	Total/NA	Water	SM 2540C	
400-134140-6	FD-1(AP)	Total/NA	Water	SM 2540C	
400-134140-7	SGWA-4	Total/NA	Water	SM 2540C	
400-134140-8	SGWC-7	Total/NA	Water	SM 2540C	
400-134140-9	SGWA-24	Total/NA	Water	SM 2540C	
400-134140-10	SGWA-1	Total/NA	Water	SM 2540C	
400-134140-11	SGWA-2	Total/NA	Water	SM 2540C	
MB 400-342879/1	Method Blank	Total/NA	Water	SM 2540C	
LCS 400-342879/2	Lab Control Sample	Total/NA	Water	SM 2540C	
400-134140-4 DU	SGWC-8	Total/NA	Water	SM 2540C	

Analysis Batch: 342935

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-134140-12	EB-1(AP)	Total/NA	Water	SM 2540C	
400-134140-13	SGWA-25	Total/NA	Water	SM 2540C	
400-134140-15	EB-2(AP)	Total/NA	Water	SM 2540C	
400-134140-16	SGWC-12	Total/NA	Water	SM 2540C	
400-134140-17	FB-2(AP)	Total/NA	Water	SM 2540C	
400-134140-18	SGWC-11	Total/NA	Water	SM 2540C	
400-134140-19	SGWC-17	Total/NA	Water	SM 2540C	
400-134140-20	FD-2(AP)	Total/NA	Water	SM 2540C	
400-134140-21	SGWC-13	Total/NA	Water	SM 2540C	
400-134140-22	SGWC-14	Total/NA	Water	SM 2540C	
400-134140-23	SGWC-15	Total/NA	Water	SM 2540C	
400-134140-24	SGWC-23	Total/NA	Water	SM 2540C	
400-134140-28	FD-3(AP)	Total/NA	Water	SM 2540C	
MB 400-342935/1	Method Blank	Total/NA	Water	SM 2540C	
LCS 400-342935/2	Lab Control Sample	Total/NA	Water	SM 2540C	
400-134140-16 DU	SGWC-12	Total/NA	Water	SM 2540C	
400-134140-19 DU	SGWC-17	Total/NA	Water	SM 2540C	

Analysis Batch: 343102

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-134140-14	SGWC-10	Total/NA	Water	SM 2540C	
400-134140-25	SGWC-19	Total/NA	Water	SM 2540C	

TestAmerica Pensacola

QC Association Summary

Client: Southern Company
Project/Site: CCR Plant Scherer

TestAmerica Job ID: 400-134140-1
SDG: Ash Pond

General Chemistry (Continued)

Analysis Batch: 343102 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-134140-26	SGWC-9	Total/NA	Water	SM 2540C	
MB 400-343102/1	Method Blank	Total/NA	Water	SM 2540C	
LCS 400-343102/2	Lab Control Sample	Total/NA	Water	SM 2540C	
400-134140-14 DU	SGWC-10	Total/NA	Water	SM 2540C	

Analysis Batch: 343408

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-134140-27	SGWC-16	Total/NA	Water	SM 2540C	
400-134140-29	SGWC-22	Total/NA	Water	SM 2540C	
400-134140-30	FB-3(AP)	Total/NA	Water	SM 2540C	
400-134140-31	SGWC-21	Total/NA	Water	SM 2540C	
400-134140-32	SGWC-20	Total/NA	Water	SM 2540C	
400-134140-33	SGWC-18	Total/NA	Water	SM 2540C	
400-134140-34	EB-3(AP)	Total/NA	Water	SM 2540C	
MB 400-343408/1	Method Blank	Total/NA	Water	SM 2540C	
LCS 400-343408/2	Lab Control Sample	Total/NA	Water	SM 2540C	
400-134140-27 DU	SGWC-16	Total/NA	Water	SM 2540C	

QC Sample Results

Client: Southern Company
Project/Site: CCR Plant Scherer

TestAmerica Job ID: 400-134140-1
SDG: Ash Pond

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 400-343279/4
Matrix: Water
Analysis Batch: 343279

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<0.89		1.0	0.89	mg/L			02/22/17 11:03	1
Fluoride	<0.082		0.20	0.082	mg/L			02/22/17 11:03	1
Sulfate	<0.70		1.0	0.70	mg/L			02/22/17 11:03	1

Lab Sample ID: LCS 400-343279/5
Matrix: Water
Analysis Batch: 343279

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloride	10.0	9.96		mg/L		100	90 - 110
Fluoride	10.0	10.0		mg/L		100	90 - 110
Sulfate	10.0	10.4		mg/L		104	90 - 110

Lab Sample ID: LCSD 400-343279/6
Matrix: Water
Analysis Batch: 343279

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
Chloride	10.0	10.1		mg/L		101	90 - 110	1	15
Fluoride	10.0	10.7		mg/L		107	90 - 110	7	15
Sulfate	10.0	10.4		mg/L		104	90 - 110	0	15

Lab Sample ID: 460-128494-H-1 MS
Matrix: Water
Analysis Batch: 343279

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	170		50.0	214		mg/L		97	80 - 120
Fluoride	40		50.0	88.1		mg/L		97	80 - 120
Sulfate	29		50.0	81.7		mg/L		105	80 - 120

Lab Sample ID: 460-128494-H-1 MSD
Matrix: Water
Analysis Batch: 343279

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	170		50.0	214		mg/L		96	80 - 120	0	20
Fluoride	40		50.0	88.5		mg/L		98	80 - 120	0	20
Sulfate	29		50.0	82.7		mg/L		107	80 - 120	1	20

Lab Sample ID: MB 400-343698/10
Matrix: Water
Analysis Batch: 343698

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<0.89		1.0	0.89	mg/L			02/24/17 19:17	1
Fluoride	<0.082		0.20	0.082	mg/L			02/24/17 19:17	1
Sulfate	<0.70		1.0	0.70	mg/L			02/24/17 19:17	1

TestAmerica Pensacola

QC Sample Results

Client: Southern Company
Project/Site: CCR Plant Scherer

TestAmerica Job ID: 400-134140-1
SDG: Ash Pond

Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: LCS 400-343698/11
Matrix: Water
Analysis Batch: 343698

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloride	10.0	10.2		mg/L		102	90 - 110
Fluoride	10.0	10.8		mg/L		108	90 - 110
Sulfate	10.0	10.2		mg/L		102	90 - 110

Lab Sample ID: LCSD 400-343698/12
Matrix: Water
Analysis Batch: 343698

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
Chloride	10.0	10.2		mg/L		102	90 - 110	0	15
Fluoride	10.0	10.9		mg/L		109	90 - 110	1	15
Sulfate	10.0	10.1		mg/L		101	90 - 110	1	15

Lab Sample ID: 400-134140-13 MS
Matrix: Water
Analysis Batch: 343698

Client Sample ID: SGWA-25
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloride	1.5		10.0	11.4		mg/L		99	80 - 120
Fluoride	<0.082		10.0	10.6		mg/L		106	80 - 120
Sulfate	<0.70		10.0	10.4		mg/L		104	80 - 120

Lab Sample ID: 400-134140-13 MSD
Matrix: Water
Analysis Batch: 343698

Client Sample ID: SGWA-25
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Chloride	1.5		10.0	11.4		mg/L		99	80 - 120	0	20
Fluoride	<0.082		10.0	10.7		mg/L		107	80 - 120	1	20
Sulfate	<0.70		10.0	10.4		mg/L		104	80 - 120	0	20

Lab Sample ID: MB 400-343781/4
Matrix: Water
Analysis Batch: 343781

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<0.89		1.0	0.89	mg/L			02/27/17 11:46	1
Fluoride	<0.082		0.20	0.082	mg/L			02/27/17 11:46	1
Sulfate	<0.70		1.0	0.70	mg/L			02/27/17 11:46	1

Lab Sample ID: LCS 400-343781/5
Matrix: Water
Analysis Batch: 343781

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloride	10.0	10.3		mg/L		103	90 - 110
Fluoride	10.0	10.9		mg/L		109	90 - 110
Sulfate	10.0	10.2		mg/L		102	90 - 110

TestAmerica Pensacola

QC Sample Results

Client: Southern Company
Project/Site: CCR Plant Scherer

TestAmerica Job ID: 400-134140-1
SDG: Ash Pond

Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: LCSD 400-343781/6
Matrix: Water
Analysis Batch: 343781

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
Chloride	10.0	10.3		mg/L		103	90 - 110	0	15
Fluoride	10.0	10.9		mg/L		109	90 - 110	0	15
Sulfate	10.0	10.3		mg/L		103	90 - 110	1	15

Lab Sample ID: 400-134102-F-13 MS
Matrix: Water
Analysis Batch: 343781

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	RPD	RPD Limit
Chloride	150		100	249		mg/L		103	80 - 120		
Fluoride	<0.82		100	106		mg/L		106	80 - 120		
Sulfate	520	E	100	617	E 4	mg/L		95	80 - 120		

Lab Sample ID: 400-134102-F-13 MSD
Matrix: Water
Analysis Batch: 343781

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	150		100	249		mg/L		103	80 - 120	0	20
Fluoride	<0.82		100	107		mg/L		107	80 - 120	1	20
Sulfate	520	E	100	616	E 4	mg/L		95	80 - 120	0	20

Lab Sample ID: MB 400-343809/31
Matrix: Water
Analysis Batch: 343809

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<0.89		1.0	0.89	mg/L			02/27/17 22:03	1
Fluoride	<0.082		0.20	0.082	mg/L			02/27/17 22:03	1
Sulfate	<0.70		1.0	0.70	mg/L			02/27/17 22:03	1

Lab Sample ID: LCS 400-343809/32
Matrix: Water
Analysis Batch: 343809

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Chloride	10.0	9.88		mg/L		99	90 - 110		
Fluoride	10.0	10.9		mg/L		109	90 - 110		
Sulfate	10.0	10.0		mg/L		100	90 - 110		

Lab Sample ID: LCSD 400-343809/33
Matrix: Water
Analysis Batch: 343809

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
Chloride	10.0	9.88		mg/L		99	90 - 110	0	15
Fluoride	10.0	10.8		mg/L		108	90 - 110	1	15
Sulfate	10.0	10.0		mg/L		100	90 - 110	0	15

TestAmerica Pensacola

QC Sample Results

Client: Southern Company
Project/Site: CCR Plant Scherer

TestAmerica Job ID: 400-134140-1
SDG: Ash Pond

Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: 400-134170-D-2 MS
Matrix: Water
Analysis Batch: 343809

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	4.2		10.0	14.7		mg/L		105	80 - 120
Fluoride	<0.082		10.0	11.0		mg/L		110	80 - 120
Sulfate	6.6		10.0	17.2		mg/L		106	80 - 120

Lab Sample ID: 400-134170-D-2 MSD
Matrix: Water
Analysis Batch: 343809

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	4.2		10.0	14.7		mg/L		105	80 - 120	0	20
Fluoride	<0.082		10.0	10.9		mg/L		109	80 - 120	0	20
Sulfate	6.6		10.0	17.2		mg/L		106	80 - 120	0	20

Lab Sample ID: MB 400-343914/4
Matrix: Water
Analysis Batch: 343914

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<0.89		1.0	0.89	mg/L			02/28/17 10:13	1
Fluoride	<0.082		0.20	0.082	mg/L			02/28/17 10:13	1
Sulfate	<0.70		1.0	0.70	mg/L			02/28/17 10:13	1

Lab Sample ID: LCS 400-343914/5
Matrix: Water
Analysis Batch: 343914

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloride	10.0	10.0		mg/L		100	90 - 110
Fluoride	10.0	10.8		mg/L		108	90 - 110
Sulfate	10.0	9.98		mg/L		100	90 - 110

Lab Sample ID: LCSD 400-343914/6
Matrix: Water
Analysis Batch: 343914

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
Chloride	10.0	10.0		mg/L		100	90 - 110	0	15
Fluoride	10.0	10.8		mg/L		108	90 - 110	0	15
Sulfate	10.0	10.0		mg/L		100	90 - 110	1	15

Lab Sample ID: 400-134140-26 MS
Matrix: Water
Analysis Batch: 343914

Client Sample ID: SGWC-9
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloride	9.2	J	100	105		mg/L		96	80 - 120
Fluoride	<0.82		100	106		mg/L		106	80 - 120
Sulfate	300		100	395		mg/L		96	80 - 120

QC Sample Results

Client: Southern Company
Project/Site: CCR Plant Scherer

TestAmerica Job ID: 400-134140-1
SDG: Ash Pond

Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: 400-134140-26 MSD
Matrix: Water
Analysis Batch: 343914

Client Sample ID: SGWC-9
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Chloride	9.2	J	100	105		mg/L		96	80 - 120	0	20
Fluoride	<0.82		100	106		mg/L		106	80 - 120	0	20
Sulfate	300		100	395		mg/L		97	80 - 120	0	20

Method: 6020 - Metals (ICP/MS)

Lab Sample ID: MB 400-343051/1-A ^5
Matrix: Water
Analysis Batch: 343369

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 343051

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0010		0.0025	0.0010	mg/L		02/21/17 11:30	02/22/17 11:56	5
Arsenic	<0.00046		0.0013	0.00046	mg/L		02/21/17 11:30	02/22/17 11:56	5
Barium	<0.00049		0.0025	0.00049	mg/L		02/21/17 11:30	02/22/17 11:56	5
Beryllium	<0.00034		0.0025	0.00034	mg/L		02/21/17 11:30	02/22/17 11:56	5
Boron	<0.021		0.050	0.021	mg/L		02/21/17 11:30	02/22/17 11:56	5
Cadmium	<0.00034		0.0025	0.00034	mg/L		02/21/17 11:30	02/22/17 11:56	5
Calcium	<0.13		0.25	0.13	mg/L		02/21/17 11:30	02/22/17 11:56	5
Chromium	<0.0011		0.0025	0.0011	mg/L		02/21/17 11:30	02/22/17 11:56	5
Cobalt	<0.00040		0.0025	0.00040	mg/L		02/21/17 11:30	02/22/17 11:56	5
Lead	<0.00035		0.0013	0.00035	mg/L		02/21/17 11:30	02/22/17 11:56	5
Lithium	<0.0032		0.0050	0.0032	mg/L		02/21/17 11:30	02/22/17 11:56	5
Molybdenum	<0.00085		0.015	0.00085	mg/L		02/21/17 11:30	02/22/17 11:56	5
Selenium	<0.00024		0.0013	0.00024	mg/L		02/21/17 11:30	02/22/17 11:56	5
Thallium	<0.000085		0.00050	0.000085	mg/L		02/21/17 11:30	02/22/17 11:56	5

Lab Sample ID: LCS 400-343051/2-A
Matrix: Water
Analysis Batch: 343369

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 343051

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Antimony	0.0500	0.0586		mg/L		117	80 - 120
Arsenic	0.0500	0.0505		mg/L		101	80 - 120
Barium	0.0500	0.0504		mg/L		101	80 - 120
Beryllium	0.0500	0.0504		mg/L		101	80 - 120
Boron	0.100	0.0989		mg/L		99	80 - 120
Cadmium	0.0500	0.0511		mg/L		102	80 - 120
Calcium	5.00	4.90		mg/L		98	80 - 120
Chromium	0.0500	0.0495		mg/L		99	80 - 120
Cobalt	0.0500	0.0486		mg/L		97	80 - 120
Lead	0.0500	0.0497		mg/L		99	80 - 120
Lithium	0.0500	0.0520		mg/L		104	80 - 120
Molybdenum	0.100	0.0992		mg/L		99	80 - 120
Selenium	0.0500	0.0497		mg/L		99	80 - 120
Thallium	0.0100	0.0103		mg/L		103	80 - 120

QC Sample Results

Client: Southern Company
Project/Site: CCR Plant Scherer

TestAmerica Job ID: 400-134140-1
SDG: Ash Pond

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

Lab Sample ID: 400-134140-1 MS
Matrix: Water
Analysis Batch: 343369

Client Sample ID: SGWA-3
Prep Type: Total Recoverable
Prep Batch: 343051

Analyte	Sample	Sample Qualifier	Spike Added	MS		Unit	D	%Rec	%Rec.	
	Result			Result	Qualifier				Limits	Limits
Antimony	<0.0010		0.0500	0.0626		mg/L		125	75 - 125	
Arsenic	<0.00046		0.0500	0.0541		mg/L		108	75 - 125	
Barium	0.032		0.0500	0.0816		mg/L		98	75 - 125	
Beryllium	<0.00034		0.0500	0.0490		mg/L		98	75 - 125	
Boron	<0.021		0.100	0.109		mg/L		109	75 - 125	
Cadmium	<0.00034		0.0500	0.0516		mg/L		103	75 - 125	
Calcium	4.6		5.00	9.62		mg/L		100	75 - 125	
Chromium	0.0076		0.0500	0.0571		mg/L		99	75 - 125	
Cobalt	<0.00040		0.0500	0.0494		mg/L		99	75 - 125	
Lead	<0.00035		0.0500	0.0488		mg/L		98	75 - 125	
Lithium	<0.0032		0.0500	0.0502		mg/L		100	75 - 125	
Molybdenum	0.0011	J	0.100	0.109		mg/L		108	75 - 125	
Selenium	<0.00024		0.0500	0.0545		mg/L		109	75 - 125	
Thallium	<0.000085		0.0100	0.00998		mg/L		100	75 - 125	

Lab Sample ID: 400-134140-1 MSD
Matrix: Water
Analysis Batch: 343369

Client Sample ID: SGWA-3
Prep Type: Total Recoverable
Prep Batch: 343051

Analyte	Sample	Sample Qualifier	Spike Added	MSD		Unit	D	%Rec	%Rec.		RPD	
	Result			Result	Qualifier				Limits	Limits	RPD	Limit
Antimony	<0.0010		0.0500	0.0598		mg/L		120	75 - 125	5	20	
Arsenic	<0.00046		0.0500	0.0530		mg/L		106	75 - 125	2	20	
Barium	0.032		0.0500	0.0836		mg/L		102	75 - 125	2	20	
Beryllium	<0.00034		0.0500	0.0496		mg/L		99	75 - 125	1	20	
Boron	<0.021		0.100	0.104		mg/L		104	75 - 125	5	20	
Cadmium	<0.00034		0.0500	0.0526		mg/L		105	75 - 125	2	20	
Calcium	4.6		5.00	9.61		mg/L		100	75 - 125	0	20	
Chromium	0.0076		0.0500	0.0579		mg/L		101	75 - 125	1	20	
Cobalt	<0.00040		0.0500	0.0501		mg/L		100	75 - 125	1	20	
Lead	<0.00035		0.0500	0.0496		mg/L		99	75 - 125	2	20	
Lithium	<0.0032		0.0500	0.0506		mg/L		101	75 - 125	1	20	
Molybdenum	0.0011	J	0.100	0.103		mg/L		102	75 - 125	6	20	
Selenium	<0.00024		0.0500	0.0501		mg/L		100	75 - 125	8	20	
Thallium	<0.000085		0.0100	0.0104		mg/L		104	75 - 125	4	20	

Lab Sample ID: MB 400-343053/1-A ^5
Matrix: Water
Analysis Batch: 343697

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 343053

Analyte	MB		RL	MDL	Unit	D	Prepared		Analyzed		Dil Fac
	Result	Qualifier					Prepared	Prepared	Analyzed	Analyzed	
Antimony	<0.0010		0.0025	0.0010	mg/L		02/22/17 10:25	02/24/17 11:03			5
Arsenic	<0.00046		0.0013	0.00046	mg/L		02/22/17 10:25	02/24/17 11:03			5
Barium	<0.00049		0.0025	0.00049	mg/L		02/22/17 10:25	02/24/17 11:03			5
Beryllium	<0.00034		0.0025	0.00034	mg/L		02/22/17 10:25	02/24/17 11:03			5
Boron	<0.021		0.050	0.021	mg/L		02/22/17 10:25	02/24/17 11:03			5
Cadmium	<0.00034		0.0025	0.00034	mg/L		02/22/17 10:25	02/24/17 11:03			5
Chromium	<0.0011		0.0025	0.0011	mg/L		02/22/17 10:25	02/24/17 11:03			5
Cobalt	<0.00040		0.0025	0.00040	mg/L		02/22/17 10:25	02/24/17 11:03			5

TestAmerica Pensacola

QC Sample Results

Client: Southern Company
Project/Site: CCR Plant Scherer

TestAmerica Job ID: 400-134140-1
SDG: Ash Pond

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

Lab Sample ID: MB 400-343053/1-A ^5
Matrix: Water
Analysis Batch: 343697

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 343053

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	<0.00035		0.0013	0.00035	mg/L		02/22/17 10:25	02/24/17 11:03	5
Lithium	<0.0032		0.0050	0.0032	mg/L		02/22/17 10:25	02/24/17 11:03	5
Molybdenum	<0.00085		0.015	0.00085	mg/L		02/22/17 10:25	02/24/17 11:03	5
Selenium	<0.00024		0.0013	0.00024	mg/L		02/22/17 10:25	02/24/17 11:03	5
Thallium	<0.000085		0.00050	0.000085	mg/L		02/22/17 10:25	02/24/17 11:03	5

Lab Sample ID: MB 400-343053/1-A ^5
Matrix: Water
Analysis Batch: 344230

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 343053

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Boron	<0.021		0.050	0.021	mg/L		02/22/17 10:25	03/01/17 12:58	5
Calcium	<0.13		0.25	0.13	mg/L		02/22/17 10:25	03/01/17 12:58	5
Chromium	<0.0011		0.0025	0.0011	mg/L		02/22/17 10:25	03/01/17 12:58	5
Cobalt	<0.00040		0.0025	0.00040	mg/L		02/22/17 10:25	03/01/17 12:58	5

Lab Sample ID: LCS 400-343053/2-A
Matrix: Water
Analysis Batch: 343697

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 343053

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	Limits
Antimony	0.0500	0.0593		mg/L		119	80 - 120
Arsenic	0.0500	0.0538		mg/L		108	80 - 120
Barium	0.0500	0.0493		mg/L		99	80 - 120
Beryllium	0.0500	0.0527		mg/L		105	80 - 120
Boron	0.100	0.0998		mg/L		100	80 - 120
Cadmium	0.0500	0.0534		mg/L		107	80 - 120
Chromium	0.0500	0.0535		mg/L		107	80 - 120
Cobalt	0.0500	0.0515		mg/L		103	80 - 120
Lead	0.0500	0.0510		mg/L		102	80 - 120
Lithium	0.0500	0.0551		mg/L		110	80 - 120
Molybdenum	0.100	0.105		mg/L		105	80 - 120
Selenium	0.0500	0.0533		mg/L		107	80 - 120
Thallium	0.0100	0.0106		mg/L		106	80 - 120

Lab Sample ID: LCS 400-343053/2-A
Matrix: Water
Analysis Batch: 344230

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 343053

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	Limits
Boron	0.100	0.103		mg/L		103	80 - 120
Calcium	5.00	5.10		mg/L		102	80 - 120
Chromium	0.0500	0.0552		mg/L		110	80 - 120
Cobalt	0.0500	0.0523		mg/L		105	80 - 120

QC Sample Results

Client: Southern Company
Project/Site: CCR Plant Scherer

TestAmerica Job ID: 400-134140-1
SDG: Ash Pond

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

Lab Sample ID: 400-134140-21 MS
Matrix: Water
Analysis Batch: 343697

Client Sample ID: SGWC-13
Prep Type: Total Recoverable
Prep Batch: 343053

Analyte	Sample	Sample	Spike	MS MS		Unit	D	%Rec	Limits	%Rec.
	Result	Qualifier		Result	Qualifier					
Antimony	<0.0010	F1	0.0500	0.0640	F1	mg/L		128	75 - 125	
Arsenic	<0.00046		0.0500	0.0561		mg/L		112	75 - 125	
Barium	0.026		0.0500	0.0747		mg/L		97	75 - 125	
Beryllium	<0.00034		0.0500	0.0535		mg/L		107	75 - 125	
Boron	0.50		0.100	0.609	4	mg/L		111	75 - 125	
Cadmium	<0.00034		0.0500	0.0537		mg/L		107	75 - 125	
Chromium	<0.0011		0.0500	0.0533		mg/L		107	75 - 125	
Cobalt	0.0073		0.0500	0.0590		mg/L		103	75 - 125	
Lead	<0.00035		0.0500	0.0505		mg/L		101	75 - 125	
Lithium	<0.0032		0.0500	0.0538		mg/L		108	75 - 125	
Molybdenum	<0.00085		0.100	0.114		mg/L		114	75 - 125	
Selenium	<0.00024		0.0500	0.0579		mg/L		116	75 - 125	
Thallium	<0.00085		0.0100	0.0104		mg/L		104	75 - 125	

Lab Sample ID: 400-134140-21 MSD
Matrix: Water
Analysis Batch: 343697

Client Sample ID: SGWC-13
Prep Type: Total Recoverable
Prep Batch: 343053

Analyte	Sample	Sample	Spike	MSD MSD		Unit	D	%Rec	Limits	RPD	Limit
	Result	Qualifier		Result	Qualifier						
Antimony	<0.0010	F1	0.0500	0.0605		mg/L		121	75 - 125	6	20
Arsenic	<0.00046		0.0500	0.0553		mg/L		111	75 - 125	1	20
Barium	0.026		0.0500	0.0740		mg/L		96	75 - 125	1	20
Beryllium	<0.00034		0.0500	0.0525		mg/L		105	75 - 125	2	20
Boron	0.50		0.100	0.600	4	mg/L		102	75 - 125	2	20
Cadmium	<0.00034		0.0500	0.0513		mg/L		103	75 - 125	5	20
Chromium	<0.0011		0.0500	0.0522		mg/L		104	75 - 125	2	20
Cobalt	0.0073		0.0500	0.0581		mg/L		102	75 - 125	2	20
Lead	<0.00035		0.0500	0.0505		mg/L		101	75 - 125	0	20
Lithium	<0.0032		0.0500	0.0533		mg/L		107	75 - 125	1	20
Molybdenum	<0.00085		0.100	0.106		mg/L		106	75 - 125	8	20
Selenium	<0.00024		0.0500	0.0519		mg/L		104	75 - 125	11	20
Thallium	<0.00085		0.0100	0.0104		mg/L		104	75 - 125	0	20

Method: 7470A - Mercury (CVAA)

Lab Sample ID: MB 400-343355/14-A
Matrix: Water
Analysis Batch: 343808

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 343355

Analyte	MB MB		RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Mercury	<0.000070		0.00020	0.000070	mg/L		02/26/17 13:13	02/27/17 10:56	1

Lab Sample ID: LCS 400-343355/15-A
Matrix: Water
Analysis Batch: 343808

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 343355

Analyte	Spike	LCS LCS		Unit	D	%Rec	Limits	%Rec.
		Added	Result					
Mercury	0.00101	0.00119		mg/L		119	80 - 120	

TestAmerica Pensacola

QC Sample Results

Client: Southern Company
Project/Site: CCR Plant Scherer

TestAmerica Job ID: 400-134140-1
SDG: Ash Pond

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

Lab Sample ID: 400-134140-2 MS
Matrix: Water
Analysis Batch: 343808

Client Sample ID: FB-1(AP)
Prep Type: Total/NA
Prep Batch: 343355

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	Limits
Mercury	<0.000070		0.00201	0.00240		mg/L		119	80 - 120

Lab Sample ID: 400-134140-2 MSD
Matrix: Water
Analysis Batch: 343808

Client Sample ID: FB-1(AP)
Prep Type: Total/NA
Prep Batch: 343355

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Mercury	<0.000070		0.00201	0.00234		mg/L		116	80 - 120	2	20

Lab Sample ID: MB 400-343356/14-A
Matrix: Water
Analysis Batch: 343808

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 343356

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.000070		0.00020	0.000070	mg/L		02/25/17 12:44	02/27/17 14:24	1

Lab Sample ID: LCS 400-343356/15-A
Matrix: Water
Analysis Batch: 343808

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 343356

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	Limits
Mercury	0.00101	0.00113		mg/L		112	80 - 120

Lab Sample ID: 400-134140-22 MS
Matrix: Water
Analysis Batch: 343808

Client Sample ID: SGWC-14
Prep Type: Total/NA
Prep Batch: 343356

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	Limits
Mercury	<0.000070		0.00201	0.00213		mg/L		106	80 - 120

Lab Sample ID: 400-134140-22 MSD
Matrix: Water
Analysis Batch: 343808

Client Sample ID: SGWC-14
Prep Type: Total/NA
Prep Batch: 343356

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Mercury	<0.000070		0.00201	0.00217		mg/L		107	80 - 120	2	20

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

Lab Sample ID: MB 400-342879/1
Matrix: Water
Analysis Batch: 342879

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	<3.4		5.0	3.4	mg/L			02/19/17 11:34	1

TestAmerica Pensacola

QC Sample Results

Client: Southern Company
Project/Site: CCR Plant Scherer

TestAmerica Job ID: 400-134140-1
SDG: Ash Pond

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

Lab Sample ID: LCS 400-342879/2
Matrix: Water
Analysis Batch: 342879

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	270		mg/L		92	78 - 122

Lab Sample ID: 400-134140-4 DU
Matrix: Water
Analysis Batch: 342879

Client Sample ID: SGWC-8
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Total Dissolved Solids	370		366		mg/L		0	5

Lab Sample ID: MB 400-342935/1
Matrix: Water
Analysis Batch: 342935

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	<3.4		5.0	3.4	mg/L			02/20/17 10:44	1

Lab Sample ID: LCS 400-342935/2
Matrix: Water
Analysis Batch: 342935

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: 400-134140-16 DU
Matrix: Water
Analysis Batch: 342935

Client Sample ID: SGWC-12
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Total Dissolved Solids	200		202		mg/L		0	5

Lab Sample ID: 400-134140-19 DU
Matrix: Water
Analysis Batch: 342935

Client Sample ID: SGWC-17
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Total Dissolved Solids	350		354		mg/L		0	5

Lab Sample ID: MB 400-343102/1
Matrix: Water
Analysis Batch: 343102

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	<3.4		5.0	3.4	mg/L			02/21/17 16:12	1

Lab Sample ID: LCS 400-343102/2
Matrix: Water
Analysis Batch: 343102

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	280		mg/L		96	78 - 122

TestAmerica Pensacola

QC Sample Results

Client: Southern Company
 Project/Site: CCR Plant Scherer

TestAmerica Job ID: 400-134140-1
 SDG: Ash Pond

Lab Sample ID: 400-134140-14 DU
Matrix: Water
Analysis Batch: 343102

Client Sample ID: SGWC-10
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Total Dissolved Solids	18		18.0		mg/L		0	5

Lab Sample ID: MB 400-343408/1
Matrix: Water
Analysis Batch: 343408

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	<3.4		5.0	3.4	mg/L			02/23/17 15:54	1

Lab Sample ID: LCS 400-343408/2
Matrix: Water
Analysis Batch: 343408

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	276		mg/L		94	78 - 122

Lab Sample ID: 400-134140-27 DU
Matrix: Water
Analysis Batch: 343408

Client Sample ID: SGWC-16
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Total Dissolved Solids	40		40.0		mg/L		0	5

TestAmerica Pensacola
 3355 McLennore Drive
 Pensacola, FL 32514
 Phone (850) 474-1001 Fax (850) 478-2671

Chain of Custody Record

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Client Information Client Contact: Jiju Abraham Company: Southern Company Address: 241 Ralph McGill Blvd SE B10185 City: Atlanta State, Zip: GA, 30308 Phone: Email: JAbraham@southernco.com Project Name: CCR - Scheier Site: Ash Pond		Lab P/N: Whitmire, Cheyenne R E-Mail: cheyenne.whitmire@testamericainc.com Due Date Requested: TAT Requested (days): PO #: GPC10524814 IVO #: Project #: 40007041 SSOW#:		Sampler: Ben Hodges Phone: 912-258-7457 Carrier Tracking No(s): Analysis Requested: 2440C-TDS, 300_ORP, 9316_Ra226, 9320_Ra228, Ra226Ra228_GFPCC 6020_Sb, As, Ba, Be, Cd, Cr, Co, Pb, Li, Mn, Se, Tl, V, Zn, Hg 9316_Ra226, 9320_Ra228, Ra226Ra228_GFPCC		COC No: 400-57303-24790.8 Page: 1 of 1 Job #: 400-134140 Preservation Codes: A - HCL B - NaOH C - Zn Acetate D - Nitric Acid E - NaHSO4 F - MeOH G - Ammonia H - Ascorbic Acid I - Ice J - DI Water K - EDTA L - EDA Other: M - Hexane N - None O - AsNaO2 P - Na2O4S Q - Na2SO3 R - Na2SO4 S - H2SO4 T - TSP Dodecylsulfate U - Acetone V - MCAA W - pH 4-5 X - Other (specify)	
Sample ID	Sample Date	Sample Time	Sample Type (C=Comp, G=Grab)	Matrix (Water, Solid, Swab, Other)	Field # (For Sample Log or No.)	Total Number of Containers	Special Instructions/Note
SGWA-3	2/14/17	1115	G	Water	N	3	
FB-1(AP)	2/14/17	1100	G	Water	N	3	
SGWC-6	2/14/17	1345	G	Water	N	3	
SGWC-8	2/14/17	1505	G	Water	N	3	
SGWA-5	2/14/17	0850	G	Water	N	3	
FD-1(AP)	2/14/17	-	G	Water	N	3	
SGWA-4	2/14/17	1146	G	Water	N	3	
SGWC-7	2/14/17	1405	G	Water	N	3	
SGWA-24	2/14/17	1041	G	Water	N	3	1 Extra Red
SGWA-1	2/14/17	1231	G	Water	N	3	
SGWA-2	2/14/17	1356	G	Water	N	3	
EB-1(AP)	2/14/17	0820	G	Water	N	3	
SGWA-25	2/14/17	1510	G	Water	N	3	

Possible Hazard Identification
 Non-Hazard Flammable Skin Irritant
 Poison B Unknown Radiological
 Deliverable Requested: I, II, III, IV, Other (specify)

Empty Kit Relinquished by: Ben Hodges
 Date: 2/15/17 09:35
 Company: C-New

Relinquished by: Ben Hodges
 Date: 2/15/17 11:20
 Company: C-New

Relinquished by: Ben Hodges
 Date: 2/15/17 11:21
 Company: C-New

Custody Seal No.:
 Δ Yes Δ No Δ

Received By: M. BATH
 Date/Time: 2/15/17 9:33
 Company: C-New

Received By: M. BATH
 Date/Time: 2/15/17 11:20
 Company: C-New

Received By: M. BATH
 Date/Time: 2/15/17 08:46
 Company: C-New

Cooler Temperature(s) °C and Other Remarks: 20°C, 21.0°C, 21.7°C

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

Special Instructions/QC Requirements: Please send a copy of report to Maria Padilla at GPC Labs
 Method of Shipment:

TestAmerica Pensacola
 3355 McLemore Drive
 Pensacola, FL 32514
 Phone (850) 474-1001 Fax (850) 478-2671

Chain of Custody Record



Client Information Sampler: Ben Hodges Phone: 912-259-7457 Client Contact: Jaiu Abraham Company: Southern Company		Lab Pkt: Whittrite, Cheyenne R E-Mail: cheyenne.whittrite@testamericainc.com		COC No: 400-57303-24790.8 Page: Page 1 of 1 Job #:	
Due Date Requested: TAT Requested (days): PO #: GPC-10624814 WIO #: Project #: 40007041 CCR - Scherer Site: Ash Pond		Analysis Requested 2640C-TDS, 300_ORFM_26D-chloride,Fluoride,sulfate 0020-9B,As,Ba,Bi,Bz,Cd,Cr,Cp,Pl,MM,Se,TL,7470A-Hg 0316_R4228, 0320_R4228, R4228Ra228_GFPc Total Number of Equations: 5			
Sample Identification Sample Date Sample Time Sample Type (C=Comp, G=grab) Matrix (W=Water, S=Soil, D=Dewast, BR=Brine, AW=Air)		Preservation Codes: A - HCl B - NaOH C - Zn Acetate D - Nitric Acid E - NaHSO4 F - NaOH G - Amchlor H - Ascorbic Acid I - Ice J - DI Water K - EDTA L - EDA Other: M - Hexane N - None O - AsHClO2 P - Na2CO3 Q - Na2SO3 R - Na2S2O3 S - H2SO4 T - TSP Dodecylhydrate U - Acetone V - MCAA W - Ph 4-S X - Other (specify)			
Possible Hazard Identification <input checked="" type="checkbox"/> Non-Hazard <input type="checkbox"/> Flammable <input type="checkbox"/> Skin Irritant <input type="checkbox"/> Poison B <input type="checkbox"/> Unknown <input type="checkbox"/> Radiological Deliverable Requested: I, II, III, IV, Other (specify)		Special Instructions/Note: 1 Extra Rat			
Sample Disposal (A fee may be assessed if samples are retained longer than 1 month) <input type="checkbox"/> Return To Client <input checked="" type="checkbox"/> Disposal By Lab Archive For: Months Special Instructions/QC Requirements: Please send a copy of report to Mainia Padilla at GPC Labs		Method of Shipment:			
Empty Kit Relinquished by: Ben Hodges Relinquished by: M. BAH Relinquished by: M. BAH Relinquished by: M. BAH Custody Seal No.: 2-16/17 AV/Yes A No/I		Date: 2/16/17 0800 2/16/17 8:00 2/16/17 0834 2/16/17 0854 2/16/17 1186, 1176			

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

Chain of Custody Record



Client Information		Lab Ptl:		Carrier/Tracking No(s):			
Sample: Ben Hodges	Whitnrite, Cheyenne R	DOC No: 400-57303-24790.8					
Client Contact: Joju Abraham	E-Mail: cheyenne.whitnrite@testamericainc.com	Page: 1 of 1					
Company: Southern Company		Job #:					
Due Date Requested: TAT Requested (days):		Analysis Requested					
Address: 241 Ralph McGill Blvd SE B10185		Total Number of Containers					
City: Atlanta							
State, Zip: GA, 30388							
Phone: GPC10624814							
Email: JAbraham@southernco.com							
Project Name: CCR - Scherer							
Site: Ash Pond							
Sample Identification	Sample Date	Sample Time	Sample Type (C-comp, G-grab)	Matrix (Water, Spill, On-site, Other)	Field Filtered Sample (Yes or No)	Preservation Codes	Special Instructions/Note:
SGWC-19	2/16/17	1156	G	Water	N	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 Other:	1 Extra Radium
SGWC-9	2/16/17	1408	G	Water	N		
SGWC-16	2/16/17	1010	G	Water	N		
FD-3(AP)	2/16/17	-	G	Water	N		
SGWC-22	2/16/17	1022	G	Water	N		
FB-3(AP)	2/16/17	1030	G	Water	N		
SGWC-21	2/16/17	1148	G	Water	N		
SGWC-20	2/16/17	1332	G	Water	N		
SGWC-18	2/16/17	1511	G	Water	N		
EB-3(AP)	2/16/17	0620	G	Water	N		
Possible Hazard Identification		Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)					
<input checked="" type="checkbox"/> Non-Hazard		<input type="checkbox"/> Return To Client <input checked="" type="checkbox"/> Archive For _____ Months					
<input type="checkbox"/> Flammable		<input type="checkbox"/> Disposal By Lab _____					
<input type="checkbox"/> Skin Irritant		<input type="checkbox"/> Poison B <input type="checkbox"/> Unknown <input type="checkbox"/> Radiological					
<input type="checkbox"/> Deliverable Requested: I, II, III, IV, Other (specify)		Special Instructions/QC Requirements: Please send a copy of report to Maria Padilla at GPC Labs					
Empty Kit Relinquished by: Ben Hodges		Date: 2/17/17 1000		Received by: M. BATH		Date/Time: 2-17-17 10:00	
Relinquished by: M. BATH		Date/Time: 2-17-17 11:05		Received by: [Signature]		Date/Time: 2-17-17 15:05	
Relinquished by: [Signature]		Date/Time: 2/17/17		Received by: [Signature]		Date/Time: 2-17-17 15:05	
Custody Seal No.: [Signature]		Custody Seal No.: 14506		Company: C. NOW		Company: C. NOW	
A Yes A No		Custody Seal No.: [Signature]		Company: [Signature]		Company: [Signature]	
Color Temperature: °C and Other Remarks: 2.7°C DR 7							

661-Atlanta



Login Sample Receipt Checklist

Client: Southern Company

Job Number: 400-134140-1

SDG Number: Ash Pond

Login Number: 134140

List Number: 1

Creator: Siddoway, Benjamin

List Source: TestAmerica Pensacola

Question	Answer	Comment
Radioactivity wasn't checked or is \leq background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	N/A	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	0.0°C, 2.1°C, 1.8°C, 1.7°C, 2.7°C IR-7
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 <math><6\text{mm}</math> (1/4").	N/A	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

Certification Summary

Client: Southern Company
Project/Site: CCR Plant Scherer

TestAmerica Job ID: 400-134140-1
SDG: Ash Pond

Laboratory: TestAmerica Pensacola

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

Authority	Program	EPA Region	Certification ID	Expiration Date
Alabama	State Program	4	40150	06-30-17
Arizona	State Program	9	AZ0710	01-11-18
Arkansas DEQ	State Program	6	88-0689	09-01-17
California	ELAP	9	2510	03-31-18
Florida	NELAP	4	E81010	06-30-17
Georgia	State Program	4	N/A	06-30-17
Illinois	NELAP	5	200041	10-09-17
Iowa	State Program	7	367	08-01-18
Kansas	NELAP	7	E-10253	10-31-17
Kentucky (UST)	State Program	4	53	06-30-17
Kentucky (WW)	State Program	4	98030	12-31-17
L-A-B	ISO/IEC 17025		L2471	02-22-20
Louisiana	NELAP	6	30976	06-30-17
Louisiana (DW)	NELAP Secondary AB	6	LA170005	12-31-17
Maryland	State Program	3	233	09-30-17
Massachusetts	State Program	1	M-FL094	06-30-17
Michigan	State Program	5	9912	05-06-17
New Jersey	NELAP	2	FL006	06-30-17
North Carolina (WW/SW)	State Program	4	314	12-31-17
Oklahoma	State Program	6	9810	08-31-17
Pennsylvania	NELAP	3	68-00467	01-31-18
Rhode Island	State Program	1	LAO00307	12-30-17
South Carolina	State Program	4	96026	06-30-17
Tennessee	State Program	4	TN02907	06-30-17
Texas	NELAP	6	T104704286-16-10	09-30-17
USDA	Federal		P330-16-00172	05-24-19
Virginia	NELAP	3	460166	06-14-17
Washington	State Program	10	C915	05-15-17
West Virginia DEP	State Program	3	136	06-30-17



TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

TestAmerica Laboratories, Inc.

TestAmerica Pensacola

3355 McLemore Drive

Pensacola, FL 32514

Tel: (850)474-1001

TestAmerica Job ID: 400-134140-2

TestAmerica Sample Delivery Group: Ash Pond

Client Project/Site: CCR Plant Scherer

For:

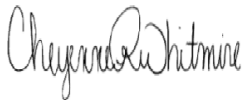
Southern Company

241 Ralph McGill Blvd SE

B10185

Atlanta, Georgia 30308

Attn: Joju Abraham



Authorized for release by:

3/22/2017 12:07:58 PM

Cheyenne Whitmire, Project Manager II

(850)471-6222

cheyenne.whitmire@testamericainc.com

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The test results in this report meet all 2003 NELAC and 2009 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.

1

2

3

4

5

6

7

8

9

10

11

12

13



Table of Contents

Cover Page	1
Table of Contents	2
Case Narrative	3
Method Summary	4
Sample Summary	5
Client Sample Results	6
Definitions	40
Chronicle	41
QC Association	50
QC Sample Results	53
Chain of Custody	59
Receipt Checklists	62
Certification Summary	63

Case Narrative

Client: Southern Company
Project/Site: CCR Plant Scherer

TestAmerica Job ID: 400-134140-2
SDG: Ash Pond

Job ID: 400-134140-2

Laboratory: TestAmerica Pensacola

Narrative

**Job Narrative
400-134140-2**

RAD

Method(s) PrecSep_0: 228 Prep Batch 293916: Insufficient sample volume was available to perform a matrix spike/matrix spike duplicate/sample duplicate (MS/MSD/DUP) associated with preparation batch 160-293916 and 160-293916. An LCS/LCSD were prepared to demonstrate batch precision.

Method(s) PrecSep-21: 226 Prep Batch 293906: Insufficient sample volume was available to perform a matrix spike/matrix spike duplicate/sample duplicate (MS/MSD/DUP) associated with preparation batch 160-293906. An LCS/LCSD were prepared to demonstrate batch precision.

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

Method Summary

Client: Southern Company
Project/Site: CCR Plant Scherer

TestAmerica Job ID: 400-134140-2
SDG: Ash Pond

Method	Method Description	Protocol	Laboratory
9315	Radium-226 (GFPC)	SW846	TAL SL
9320	Radium-228 (GFPC)	SW846	TAL SL
Ra226_Ra228	Combined Radium-226 and Radium-228	TAL-STL	TAL SL

Protocol References:

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:

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



Sample Summary

Client: Southern Company
 Project/Site: CCR Plant Scherer

TestAmerica Job ID: 400-134140-2
 SDG: Ash Pond

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
400-134140-1	SGWA-3	Water	02/14/17 11:15	02/16/17 08:46
400-134140-2	FB-1(AP)	Water	02/14/17 11:00	02/16/17 08:46
400-134140-3	SGWC-6	Water	02/14/17 13:45	02/16/17 08:46
400-134140-4	SGWC-8	Water	02/14/17 15:05	02/16/17 08:46
400-134140-5	SGWA-5	Water	02/14/17 09:50	02/16/17 08:46
400-134140-6	FD-1(AP)	Water	02/14/17 00:00	02/16/17 08:46
400-134140-7	SGWA-4	Water	02/14/17 11:46	02/16/17 08:46
400-134140-8	SGWC-7	Water	02/14/17 14:05	02/16/17 08:46
400-134140-9	SGWA-24	Water	02/14/17 10:41	02/16/17 08:46
400-134140-10	SGWA-1	Water	02/14/17 12:31	02/16/17 08:46
400-134140-11	SGWA-2	Water	02/14/17 13:56	02/16/17 08:46
400-134140-12	EB-1(AP)	Water	02/14/17 08:20	02/16/17 08:46
400-134140-13	SGWA-25	Water	02/14/17 15:10	02/16/17 08:46
400-134140-14	SGWC-10	Water	02/15/17 11:45	02/17/17 08:54
400-134140-15	EB-2(AP)	Water	02/15/17 10:10	02/17/17 08:54
400-134140-16	SGWC-12	Water	02/15/17 14:05	02/17/17 08:54
400-134140-17	FB-2(AP)	Water	02/15/17 13:45	02/17/17 08:54
400-134140-18	SGWC-11	Water	02/15/17 11:50	02/17/17 08:54
400-134140-19	SGWC-17	Water	02/15/17 13:24	02/17/17 08:54
400-134140-20	FD-2(AP)	Water	02/15/17 00:00	02/17/17 08:54
400-134140-21	SGWC-13	Water	02/15/17 11:59	02/17/17 08:54
400-134140-22	SGWC-14	Water	02/15/17 14:07	02/17/17 08:54
400-134140-23	SGWC-15	Water	02/15/17 16:00	02/17/17 08:54
400-134140-24	SGWC-23	Water	02/15/17 15:33	02/17/17 08:54
400-134140-25	SGWC-19	Water	02/16/17 11:56	02/18/17 08:31
400-134140-26	SGWC-9	Water	02/16/17 14:08	02/18/17 08:31
400-134140-27	SGWC-16	Water	02/16/17 10:10	02/18/17 08:31
400-134140-28	FD-3(AP)	Water	02/16/17 00:00	02/18/17 08:31
400-134140-29	SGWC-22	Water	02/16/17 10:22	02/18/17 08:31
400-134140-30	FB-3(AP)	Water	02/16/17 10:30	02/18/17 08:31
400-134140-31	SGWC-21	Water	02/16/17 11:48	02/18/17 08:31
400-134140-32	SGWC-20	Water	02/16/17 13:32	02/18/17 08:31
400-134140-33	SGWC-18	Water	02/16/17 15:11	02/18/17 08:31
400-134140-34	EB-3(AP)	Water	02/16/17 08:20	02/18/17 08:31

Client Sample Results

Client: Southern Company
 Project/Site: CCR Plant Scherer

TestAmerica Job ID: 400-134140-2
 SDG: Ash Pond

Client Sample ID: SGWA-3

Lab Sample ID: 400-134140-1

Date Collected: 02/14/17 11:15

Matrix: Water

Date Received: 02/16/17 08:46

Method: 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.0166	U	0.0547	0.0547	1.00	0.106	pCi/L	02/21/17 13:31	03/15/17 07:22	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	95.3		40 - 110					02/21/17 13:31	03/15/17 07:22	1

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	-0.0427	U	0.206	0.206	1.00	0.376	pCi/L	02/21/17 14:03	03/09/17 11:11	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	95.3		40 - 110					02/21/17 14:03	03/09/17 11:11	1
Y Carrier	89.7		40 - 110					02/21/17 14:03	03/09/17 11:11	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	-0.0260	U	0.213	0.213	5.00	0.376	pCi/L		03/16/17 10:41	1

Client Sample Results

Client: Southern Company
Project/Site: CCR Plant Scherer

TestAmerica Job ID: 400-134140-2
SDG: Ash Pond

Client Sample ID: FB-1(AP)

Lab Sample ID: 400-134140-2

Date Collected: 02/14/17 11:00

Matrix: Water

Date Received: 02/16/17 08:46

Method: 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	-0.0225	U	0.0614	0.0614	1.00	0.134	pCi/L	02/21/17 13:31	03/15/17 07:22	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	99.1		40 - 110					02/21/17 13:31	03/15/17 07:22	1

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.171	U	0.217	0.217	1.00	0.359	pCi/L	02/21/17 14:03	03/09/17 11:11	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	99.1		40 - 110					02/21/17 14:03	03/09/17 11:11	1
Y Carrier	92.7		40 - 110					02/21/17 14:03	03/09/17 11:11	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	0.149	U	0.225	0.226	5.00	0.359	pCi/L		03/16/17 10:41	1

Client Sample Results

Client: Southern Company
Project/Site: CCR Plant Scherer

TestAmerica Job ID: 400-134140-2
SDG: Ash Pond

Client Sample ID: SGWC-6
Date Collected: 02/14/17 13:45
Date Received: 02/16/17 08:46

Lab Sample ID: 400-134140-3
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	0.0370	U	0.0672	0.0673	1.00	0.119	pCi/L	02/21/17 13:31	03/15/17 07:22	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	99.7		40 - 110					02/21/17 13:31	03/15/17 07:22	1

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.129	U	0.191	0.192	1.00	0.321	pCi/L	02/21/17 14:03	03/09/17 11:11	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	99.7		40 - 110					02/21/17 14:03	03/09/17 11:11	1
Y Carrier	92.3		40 - 110					02/21/17 14:03	03/09/17 11:11	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	0.166	U	0.203	0.203	5.00	0.321	pCi/L		03/16/17 10:41	1

Client Sample Results

Client: Southern Company
Project/Site: CCR Plant Scherer

TestAmerica Job ID: 400-134140-2
SDG: Ash Pond

Client Sample ID: SGWC-8

Lab Sample ID: 400-134140-4

Date Collected: 02/14/17 15:05

Matrix: Water

Date Received: 02/16/17 08:46

Method: 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.379		0.128	0.132	1.00	0.124	pCi/L	02/21/17 13:31	03/15/17 07:22	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	93.5		40 - 110					02/21/17 13:31	03/15/17 07:22	1

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	1.39		0.326	0.350	1.00	0.397	pCi/L	02/21/17 14:03	03/09/17 11:12	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	93.5		40 - 110					02/21/17 14:03	03/09/17 11:12	1
Y Carrier	89.7		40 - 110					02/21/17 14:03	03/09/17 11:12	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	1.77		0.350	0.375	5.00	0.397	pCi/L		03/16/17 10:41	1

Client Sample Results

Client: Southern Company
Project/Site: CCR Plant Scherer

TestAmerica Job ID: 400-134140-2
SDG: Ash Pond

Client Sample ID: SGWA-5

Lab Sample ID: 400-134140-5

Date Collected: 02/14/17 09:50

Matrix: Water

Date Received: 02/16/17 08:46

Method: 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.0688	U	0.0733	0.0736	1.00	0.117	pCi/L	02/21/17 13:31	03/15/17 07:22	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	95.3		40 - 110					02/21/17 13:31	03/15/17 07:22	1

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.139	U	0.231	0.231	1.00	0.390	pCi/L	02/21/17 14:03	03/09/17 11:12	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	95.3		40 - 110					02/21/17 14:03	03/09/17 11:12	1
Y Carrier	86.4		40 - 110					02/21/17 14:03	03/09/17 11:12	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	0.207	U	0.242	0.243	5.00	0.390	pCi/L		03/16/17 10:41	1

Client Sample Results

Client: Southern Company
Project/Site: CCR Plant Scherer

TestAmerica Job ID: 400-134140-2
SDG: Ash Pond

Client Sample ID: FD-1(AP)

Lab Sample ID: 400-134140-6

Date Collected: 02/14/17 00:00

Matrix: Water

Date Received: 02/16/17 08:46

Method: 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	-0.0348	U	0.0420	0.0421	1.00	0.112	pCi/L	02/21/17 13:31	03/15/17 07:22	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	100		40 - 110					02/21/17 13:31	03/15/17 07:22	1

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.289	U	0.219	0.220	1.00	0.344	pCi/L	02/21/17 14:03	03/09/17 11:12	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	100		40 - 110					02/21/17 14:03	03/09/17 11:12	1
Y Carrier	87.5		40 - 110					02/21/17 14:03	03/09/17 11:12	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	0.254	U	0.223	0.224	5.00	0.344	pCi/L		03/16/17 10:41	1

Client Sample Results

Client: Southern Company
Project/Site: CCR Plant Scherer

TestAmerica Job ID: 400-134140-2
SDG: Ash Pond

Client Sample ID: SGWA-4

Lab Sample ID: 400-134140-7

Date Collected: 02/14/17 11:46

Matrix: Water

Date Received: 02/16/17 08:46

Method: 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	0.0524	0.0524	1.00	0.111	pCi/L	02/21/17 13:31	03/15/17 07:22	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	98.2		40 - 110					02/21/17 13:31	03/15/17 07:22	1

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	-0.0166	U	0.204	0.204	1.00	0.370	pCi/L	02/21/17 14:03	03/09/17 11:12	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	98.2		40 - 110					02/21/17 14:03	03/09/17 11:12	1
Y Carrier	83.7		40 - 110					02/21/17 14:03	03/09/17 11:12	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	-0.0166	U	0.211	0.211	5.00	0.370	pCi/L		03/16/17 10:41	1

Client Sample Results

Client: Southern Company
Project/Site: CCR Plant Scherer

TestAmerica Job ID: 400-134140-2
SDG: Ash Pond

Client Sample ID: SGWC-7

Lab Sample ID: 400-134140-8

Date Collected: 02/14/17 14:05

Matrix: Water

Date Received: 02/16/17 08:46

Method: 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.0982	U	0.0829	0.0833	1.00	0.125	pCi/L	02/21/17 13:31	03/15/17 07:24	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	95.0		40 - 110					02/21/17 13:31	03/15/17 07:24	1

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.230	U	0.211	0.212	1.00	0.339	pCi/L	02/21/17 14:03	03/09/17 11:12	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	95.0		40 - 110					02/21/17 14:03	03/09/17 11:12	1
Y Carrier	88.6		40 - 110					02/21/17 14:03	03/09/17 11:12	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	0.328	U	0.227	0.228	5.00	0.339	pCi/L		03/16/17 10:41	1

Client Sample Results

Client: Southern Company
Project/Site: CCR Plant Scherer

TestAmerica Job ID: 400-134140-2
SDG: Ash Pond

Client Sample ID: SGWA-24

Date Collected: 02/14/17 10:41

Date Received: 02/16/17 08:46

Lab Sample ID: 400-134140-9

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	-0.0155	U	0.0545	0.0545	1.00	0.120	pCi/L	02/21/17 13:32	03/15/17 07:24	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	96.8		40 - 110					02/21/17 13:32	03/15/17 07:24	1

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.253	U	0.230	0.231	1.00	0.370	pCi/L	02/21/17 14:03	03/09/17 11:13	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	96.8		40 - 110					02/21/17 14:03	03/09/17 11:13	1
Y Carrier	87.5		40 - 110					02/21/17 14:03	03/09/17 11:13	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	0.237	U	0.236	0.238	5.00	0.370	pCi/L		03/16/17 10:41	1

Client Sample Results

Client: Southern Company
Project/Site: CCR Plant Scherer

TestAmerica Job ID: 400-134140-2
SDG: Ash Pond

Client Sample ID: SGWA-1

Lab Sample ID: 400-134140-10

Date Collected: 02/14/17 12:31

Matrix: Water

Date Received: 02/16/17 08:46

Method: 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.0307	U	0.0554	0.0554	1.00	0.0992	pCi/L	02/21/17 13:32	03/15/17 07:24	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	93.2		40 - 110					02/21/17 13:32	03/15/17 07:24	1

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.321	U	0.247	0.249	1.00	0.390	pCi/L	02/21/17 14:03	03/09/17 11:13	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	93.2		40 - 110					02/21/17 14:03	03/09/17 11:13	1
Y Carrier	83.0		40 - 110					02/21/17 14:03	03/09/17 11:13	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	0.352	U	0.254	0.255	5.00	0.390	pCi/L		03/16/17 10:41	1

Client Sample Results

Client: Southern Company
Project/Site: CCR Plant Scherer

TestAmerica Job ID: 400-134140-2
SDG: Ash Pond

Client Sample ID: SGWA-2

Lab Sample ID: 400-134140-11

Date Collected: 02/14/17 13:56

Matrix: Water

Date Received: 02/16/17 08:46

Method: 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.0611	U	0.0703	0.0705	1.00	0.114	pCi/L	02/21/17 13:32	03/15/17 07:24	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	96.8		40 - 110					02/21/17 13:32	03/15/17 07:24	1

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.0500	U	0.232	0.232	1.00	0.405	pCi/L	02/21/17 14:03	03/09/17 11:13	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	96.8		40 - 110					02/21/17 14:03	03/09/17 11:13	1
Y Carrier	89.0		40 - 110					02/21/17 14:03	03/09/17 11:13	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	0.111	U	0.243	0.243	5.00	0.405	pCi/L		03/16/17 10:41	1

Client Sample Results

Client: Southern Company
Project/Site: CCR Plant Scherer

TestAmerica Job ID: 400-134140-2
SDG: Ash Pond

Client Sample ID: EB-1(AP)

Date Collected: 02/14/17 08:20

Date Received: 02/16/17 08:46

Lab Sample ID: 400-134140-12

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	0.00591	U	0.0637	0.0637	1.00	0.127	pCi/L	02/22/17 09:02	03/16/17 06:36	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	91.4		40 - 110					02/22/17 09:02	03/16/17 06:36	1

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.0730	U	0.195	0.195	1.00	0.338	pCi/L	02/22/17 09:50	03/10/17 10:22	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	91.4		40 - 110					02/22/17 09:50	03/10/17 10:22	1
Y Carrier	87.9		40 - 110					02/22/17 09:50	03/10/17 10:22	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	0.0789	U	0.205	0.205	5.00	0.338	pCi/L		03/16/17 10:41	1

Client Sample Results

Client: Southern Company
Project/Site: CCR Plant Scherer

TestAmerica Job ID: 400-134140-2
SDG: Ash Pond

Client Sample ID: SGWA-25

Lab Sample ID: 400-134140-13

Date Collected: 02/14/17 15:10

Matrix: Water

Date Received: 02/16/17 08:46

Method: 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.0760	U	0.0853	0.0855	1.00	0.138	pCi/L	02/22/17 09:02	03/16/17 06:36	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	90.3		40 - 110					02/22/17 09:02	03/16/17 06:36	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	0.228	0.229	1.00	0.371	pCi/L	02/22/17 09:50	03/10/17 10:22	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	90.3		40 - 110					02/22/17 09:50	03/10/17 10:22	1
Y Carrier	86.0		40 - 110					02/22/17 09:50	03/10/17 10:22	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	0.302	U	0.244	0.245	5.00	0.371	pCi/L		03/16/17 10:41	1

Client Sample Results

Client: Southern Company
Project/Site: CCR Plant Scherer

TestAmerica Job ID: 400-134140-2
SDG: Ash Pond

Client Sample ID: SGWC-10

Lab Sample ID: 400-134140-14

Date Collected: 02/15/17 11:45

Matrix: Water

Date Received: 02/17/17 08:54

Method: 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.0750	U	0.0842	0.0845	1.00	0.136	pCi/L	02/22/17 09:02	03/16/17 06:36	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	88.5		40 - 110					02/22/17 09:02	03/16/17 06:36	1

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.246	U	0.226	0.228	1.00	0.364	pCi/L	02/22/17 09:50	03/10/17 10:22	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	88.5		40 - 110					02/22/17 09:50	03/10/17 10:22	1
Y Carrier	86.0		40 - 110					02/22/17 09:50	03/10/17 10:22	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	0.321	U	0.242	0.243	5.00	0.364	pCi/L		03/16/17 10:41	1

Client Sample Results

Client: Southern Company
Project/Site: CCR Plant Scherer

TestAmerica Job ID: 400-134140-2
SDG: Ash Pond

Client Sample ID: EB-2(AP)

Lab Sample ID: 400-134140-15

Date Collected: 02/15/17 10:10

Matrix: Water

Date Received: 02/17/17 08:54

Method: 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	-0.00478	U	0.0604	0.0604	1.00	0.125	pCi/L	02/22/17 09:02	03/16/17 06:36	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	94.1		40 - 110					02/22/17 09:02	03/16/17 06:36	1

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	-0.134	U	0.198	0.199	1.00	0.379	pCi/L	02/22/17 09:50	03/10/17 10:22	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	94.1		40 - 110					02/22/17 09:50	03/10/17 10:22	1
Y Carrier	84.5		40 - 110					02/22/17 09:50	03/10/17 10:22	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	-0.139	U	0.207	0.208	5.00	0.379	pCi/L		03/16/17 10:41	1

Client Sample Results

Client: Southern Company
Project/Site: CCR Plant Scherer

TestAmerica Job ID: 400-134140-2
SDG: Ash Pond

Client Sample ID: SGWC-12

Lab Sample ID: 400-134140-16

Date Collected: 02/15/17 14:05

Matrix: Water

Date Received: 02/17/17 08:54

Method: 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	-0.00803	U	0.0585	0.0585	1.00	0.124	pCi/L	02/22/17 09:02	03/16/17 06:36	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	92.9		40 - 110					02/22/17 09:02	03/16/17 06:36	1

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	-0.0240	U	0.212	0.212	1.00	0.383	pCi/L	02/22/17 09:50	03/10/17 10:22	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	92.9		40 - 110					02/22/17 09:50	03/10/17 10:22	1
Y Carrier	87.5		40 - 110					02/22/17 09:50	03/10/17 10:22	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	-0.0321	U	0.220	0.220	5.00	0.383	pCi/L		03/16/17 10:41	1

Client Sample Results

Client: Southern Company
Project/Site: CCR Plant Scherer

TestAmerica Job ID: 400-134140-2
SDG: Ash Pond

Client Sample ID: FB-2(AP)

Lab Sample ID: 400-134140-17

Date Collected: 02/15/17 13:45

Matrix: Water

Date Received: 02/17/17 08:54

Method: 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.0224	U	0.0523	0.0523	1.00	0.0979	pCi/L	02/22/17 09:02	03/16/17 06:37	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	94.7		40 - 110					02/22/17 09:02	03/16/17 06:37	1

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.411	U	0.287	0.289	1.00	0.451	pCi/L	02/22/17 09:50	03/10/17 10:22	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	94.7		40 - 110					02/22/17 09:50	03/10/17 10:22	1
Y Carrier	83.4		40 - 110					02/22/17 09:50	03/10/17 10:22	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	0.433	U	0.291	0.294	5.00	0.451	pCi/L		03/16/17 10:41	1

Client Sample Results

Client: Southern Company
Project/Site: CCR Plant Scherer

TestAmerica Job ID: 400-134140-2
SDG: Ash Pond

Client Sample ID: SGWC-11

Lab Sample ID: 400-134140-18

Date Collected: 02/15/17 11:50

Matrix: Water

Date Received: 02/17/17 08:54

Method: 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.0292	U	0.0590	0.0591	1.00	0.107	pCi/L	02/22/17 09:02	03/16/17 06:37	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	93.2		40 - 110					02/22/17 09:02	03/16/17 06:37	1

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	-0.112	U	0.216	0.216	1.00	0.403	pCi/L	02/22/17 09:50	03/10/17 10:23	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	93.2		40 - 110					02/22/17 09:50	03/10/17 10:23	1
Y Carrier	85.2		40 - 110					02/22/17 09:50	03/10/17 10:23	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	-0.0831	U	0.224	0.224	5.00	0.403	pCi/L		03/16/17 10:41	1

Client Sample Results

Client: Southern Company
Project/Site: CCR Plant Scherer

TestAmerica Job ID: 400-134140-2
SDG: Ash Pond

Client Sample ID: SGWC-17

Lab Sample ID: 400-134140-19

Date Collected: 02/15/17 13:24

Matrix: Water

Date Received: 02/17/17 08:54

Method: 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.00642	U	0.0582	0.0582	1.00	0.117	pCi/L	02/22/17 09:02	03/16/17 06:37	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	93.8		40 - 110					02/22/17 09:02	03/16/17 06:37	1

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.169	U	0.206	0.207	1.00	0.341	pCi/L	02/22/17 09:50	03/10/17 10:23	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	93.8		40 - 110					02/22/17 09:50	03/10/17 10:23	1
Y Carrier	89.3		40 - 110					02/22/17 09:50	03/10/17 10:23	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	0.175	U	0.214	0.215	5.00	0.341	pCi/L		03/16/17 10:41	1

Client Sample Results

Client: Southern Company
Project/Site: CCR Plant Scherer

TestAmerica Job ID: 400-134140-2
SDG: Ash Pond

Client Sample ID: FD-2(AP)

Lab Sample ID: 400-134140-20

Date Collected: 02/15/17 00:00

Matrix: Water

Date Received: 02/17/17 08:54

Method: 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.0280	U	0.0701	0.0702	1.00	0.130	pCi/L	02/22/17 09:02	03/16/17 06:37	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	82.3		40 - 110					02/22/17 09:02	03/16/17 06:37	1

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.0457	U	0.253	0.253	1.00	0.446	pCi/L	02/22/17 09:50	03/10/17 10:23	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	82.3		40 - 110					02/22/17 09:50	03/10/17 10:23	1
Y Carrier	83.0		40 - 110					02/22/17 09:50	03/10/17 10:23	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	0.0737	U	0.263	0.263	5.00	0.446	pCi/L		03/16/17 10:41	1

Client Sample Results

Client: Southern Company
 Project/Site: CCR Plant Scherer

TestAmerica Job ID: 400-134140-2
 SDG: Ash Pond

Client Sample ID: SGWC-13

Lab Sample ID: 400-134140-21

Date Collected: 02/15/17 11:59

Matrix: Water

Date Received: 02/17/17 08:54

Method: 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	-0.0172	U	0.0517	0.0517	1.00	0.120	pCi/L	02/22/17 09:02	03/16/17 06:38	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	85.8		40 - 110					02/22/17 09:02	03/16/17 06:38	1

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	-0.206	U	0.233	0.234	1.00	0.451	pCi/L	02/22/17 09:50	03/10/17 10:23	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	85.8		40 - 110					02/22/17 09:50	03/10/17 10:23	1
Y Carrier	80.7		40 - 110					02/22/17 09:50	03/10/17 10:23	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	-0.223	U	0.239	0.239	5.00	0.451	pCi/L		03/16/17 10:41	1

Client Sample Results

Client: Southern Company
Project/Site: CCR Plant Scherer

TestAmerica Job ID: 400-134140-2
SDG: Ash Pond

Client Sample ID: SGWC-14

Lab Sample ID: 400-134140-22

Date Collected: 02/15/17 14:07

Matrix: Water

Date Received: 02/17/17 08:54

Method: 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.0882	U	0.0754	0.0758	1.00	0.111	pCi/L	02/22/17 09:02	03/16/17 06:38	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	91.4		40 - 110					02/22/17 09:02	03/16/17 06:38	1

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.0670	U	0.234	0.234	1.00	0.406	pCi/L	02/22/17 09:50	03/10/17 10:23	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	91.4		40 - 110					02/22/17 09:50	03/10/17 10:23	1
Y Carrier	85.2		40 - 110					02/22/17 09:50	03/10/17 10:23	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	0.155	U	0.246	0.246	5.00	0.406	pCi/L		03/16/17 10:41	1

Client Sample Results

Client: Southern Company
 Project/Site: CCR Plant Scherer

TestAmerica Job ID: 400-134140-2
 SDG: Ash Pond

Client Sample ID: SGWC-15

Lab Sample ID: 400-134140-23

Date Collected: 02/15/17 16:00

Matrix: Water

Date Received: 02/17/17 08:54

Method: 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	0.0529	0.0529	1.00	0.110	pCi/L	02/22/17 09:02	03/16/17 06:38	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	91.2		40 - 110					02/22/17 09:02	03/16/17 06:38	1

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.0767	U	0.226	0.226	1.00	0.391	pCi/L	02/22/17 09:50	03/10/17 10:23	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	91.2		40 - 110					02/22/17 09:50	03/10/17 10:23	1
Y Carrier	85.6		40 - 110					02/22/17 09:50	03/10/17 10:23	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	0.0801	U	0.232	0.232	5.00	0.391	pCi/L		03/16/17 10:41	1

Client Sample Results

Client: Southern Company
Project/Site: CCR Plant Scherer

TestAmerica Job ID: 400-134140-2
SDG: Ash Pond

Client Sample ID: SGWC-23

Lab Sample ID: 400-134140-24

Date Collected: 02/15/17 15:33

Matrix: Water

Date Received: 02/17/17 08:54

Method: 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.522		0.150	0.157	1.00	0.130	pCi/L	02/22/17 09:02	03/16/17 06:40	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	96.8		40 - 110					02/22/17 09:02	03/16/17 06:40	1

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.113	U	0.203	0.204	1.00	0.346	pCi/L	02/22/17 09:50	03/10/17 10:23	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	96.8		40 - 110					02/22/17 09:50	03/10/17 10:23	1
Y Carrier	85.2		40 - 110					02/22/17 09:50	03/10/17 10:23	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	0.635		0.252	0.257	5.00	0.346	pCi/L		03/16/17 10:41	1

Client Sample Results

Client: Southern Company
Project/Site: CCR Plant Scherer

TestAmerica Job ID: 400-134140-2
SDG: Ash Pond

Client Sample ID: SGWC-19

Lab Sample ID: 400-134140-25

Date Collected: 02/16/17 11:56

Matrix: Water

Date Received: 02/18/17 08:31

Method: 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.0886	U	0.0833	0.0837	1.00	0.127	pCi/L	02/22/17 09:02	03/16/17 06:40	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	87.3		40 - 110					02/22/17 09:02	03/16/17 06:40	1

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.0571	U	0.215	0.215	1.00	0.376	pCi/L	02/22/17 09:50	03/10/17 10:23	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	87.3		40 - 110					02/22/17 09:50	03/10/17 10:23	1
Y Carrier	88.2		40 - 110					02/22/17 09:50	03/10/17 10:23	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	0.146	U	0.231	0.231	5.00	0.376	pCi/L		03/16/17 10:41	1

Client Sample Results

Client: Southern Company
Project/Site: CCR Plant Scherer

TestAmerica Job ID: 400-134140-2
SDG: Ash Pond

Client Sample ID: SGWC-9

Lab Sample ID: 400-134140-26

Date Collected: 02/16/17 14:08

Matrix: Water

Date Received: 02/18/17 08:31

Method: 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.00984	U	0.0823	0.0823	1.00	0.161	pCi/L	02/22/17 09:02	03/16/17 06:41	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	87.0		40 - 110					02/22/17 09:02	03/16/17 06:41	1

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.0662	U	0.227	0.227	1.00	0.395	pCi/L	02/22/17 09:50	03/10/17 10:24	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	87.0		40 - 110					02/22/17 09:50	03/10/17 10:24	1
Y Carrier	86.7		40 - 110					02/22/17 09:50	03/10/17 10:24	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	0.0760	U	0.241	0.241	5.00	0.395	pCi/L		03/16/17 10:41	1

Client Sample Results

Client: Southern Company
Project/Site: CCR Plant Scherer

TestAmerica Job ID: 400-134140-2
SDG: Ash Pond

Client Sample ID: SGWC-16

Lab Sample ID: 400-134140-27

Date Collected: 02/16/17 10:10

Matrix: Water

Date Received: 02/18/17 08:31

Method: 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.0667	U	0.0773	0.0775	1.00	0.125	pCi/L	02/22/17 09:02	03/16/17 06:41	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	95.0		40 - 110					02/22/17 09:02	03/16/17 06:41	1

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.0959	U	0.198	0.198	1.00	0.338	pCi/L	02/22/17 09:50	03/10/17 10:24	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	95.0		40 - 110					02/22/17 09:50	03/10/17 10:24	1
Y Carrier	89.3		40 - 110					02/22/17 09:50	03/10/17 10:24	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	0.163	U	0.212	0.212	5.00	0.338	pCi/L		03/16/17 10:41	1

Client Sample Results

Client: Southern Company
Project/Site: CCR Plant Scherer

TestAmerica Job ID: 400-134140-2
SDG: Ash Pond

Client Sample ID: FD-3(AP)

Lab Sample ID: 400-134140-28

Date Collected: 02/16/17 00:00

Matrix: Water

Date Received: 02/18/17 08:31

Method: 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.0882	U	0.0842	0.0846	1.00	0.130	pCi/L	02/22/17 09:02	03/16/17 06:41	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	94.7		40 - 110					02/22/17 09:02	03/16/17 06:41	1

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.101	U	0.230	0.230	1.00	0.393	pCi/L	02/22/17 09:50	03/10/17 10:24	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	94.7		40 - 110					02/22/17 09:50	03/10/17 10:24	1
Y Carrier	89.0		40 - 110					02/22/17 09:50	03/10/17 10:24	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	0.189	U	0.245	0.245	5.00	0.393	pCi/L		03/16/17 10:41	1

Client Sample Results

Client: Southern Company
Project/Site: CCR Plant Scherer

TestAmerica Job ID: 400-134140-2
SDG: Ash Pond

Client Sample ID: SGWC-22

Lab Sample ID: 400-134140-29

Date Collected: 02/16/17 10:22

Matrix: Water

Date Received: 02/18/17 08:31

Method: 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.0387	U	0.0675	0.0675	1.00	0.120	pCi/L	02/22/17 09:02	03/16/17 06:41	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	93.5		40 - 110					02/22/17 09:02	03/16/17 06:41	1

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.129	U	0.237	0.237	1.00	0.401	pCi/L	02/22/17 09:50	03/10/17 10:24	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	93.5		40 - 110					02/22/17 09:50	03/10/17 10:24	1
Y Carrier	88.2		40 - 110					02/22/17 09:50	03/10/17 10:24	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	0.168	U	0.246	0.246	5.00	0.401	pCi/L		03/16/17 10:41	1

Client Sample Results

Client: Southern Company
Project/Site: CCR Plant Scherer

TestAmerica Job ID: 400-134140-2
SDG: Ash Pond

Client Sample ID: FB-3(AP)

Lab Sample ID: 400-134140-30

Date Collected: 02/16/17 10:30

Matrix: Water

Date Received: 02/18/17 08:31

Method: 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.120		0.0779	0.0786	1.00	0.0970	pCi/L	02/22/17 09:54	03/16/17 06:26	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	94.1		40 - 110					02/22/17 09:54	03/16/17 06:26	1

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	-0.148	U	0.184	0.184	1.00	0.358	pCi/L	02/22/17 10:27	03/10/17 10:26	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	94.1		40 - 110					02/22/17 10:27	03/10/17 10:26	1
Y Carrier	85.2		40 - 110					02/22/17 10:27	03/10/17 10:26	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	-0.0282	U	0.200	0.200	5.00	0.358	pCi/L		03/16/17 10:41	1

Client Sample Results

Client: Southern Company
Project/Site: CCR Plant Scherer

TestAmerica Job ID: 400-134140-2
SDG: Ash Pond

Client Sample ID: SGWC-21

Lab Sample ID: 400-134140-31

Date Collected: 02/16/17 11:48

Matrix: Water

Date Received: 02/18/17 08:31

Method: 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.108		0.0726	0.0732	1.00	0.0880	pCi/L	02/22/17 09:54	03/16/17 06:26	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	90.6		40 - 110					02/22/17 09:54	03/16/17 06:26	1

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.0239	U	0.208	0.208	1.00	0.371	pCi/L	02/22/17 10:27	03/10/17 10:26	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	90.6		40 - 110					02/22/17 10:27	03/10/17 10:26	1
Y Carrier	82.2		40 - 110					02/22/17 10:27	03/10/17 10:26	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	0.132	U	0.221	0.221	5.00	0.371	pCi/L		03/16/17 10:41	1

Client Sample Results

Client: Southern Company
Project/Site: CCR Plant Scherer

TestAmerica Job ID: 400-134140-2
SDG: Ash Pond

Client Sample ID: SGWC-20

Lab Sample ID: 400-134140-32

Date Collected: 02/16/17 13:32

Matrix: Water

Date Received: 02/18/17 08:31

Method: 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.171		0.0968	0.0980	1.00	0.118	pCi/L	02/22/17 09:54	03/16/17 06:26	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	86.7		40 - 110					02/22/17 09:54	03/16/17 06:26	1

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.210	U	0.259	0.260	1.00	0.429	pCi/L	02/22/17 10:27	03/10/17 10:26	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	86.7		40 - 110					02/22/17 10:27	03/10/17 10:26	1
Y Carrier	80.4		40 - 110					02/22/17 10:27	03/10/17 10:26	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	0.382	U	0.276	0.278	5.00	0.429	pCi/L		03/16/17 10:41	1

Client Sample Results

Client: Southern Company
Project/Site: CCR Plant Scherer

TestAmerica Job ID: 400-134140-2
SDG: Ash Pond

Client Sample ID: SGWC-18

Lab Sample ID: 400-134140-33

Date Collected: 02/16/17 15:11

Matrix: Water

Date Received: 02/18/17 08:31

Method: 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.0287	U	0.0699	0.0700	1.00	0.129	pCi/L	02/22/17 09:54	03/16/17 06:26	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	92.0		40 - 110					02/22/17 09:54	03/16/17 06:26	1

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.0726	U	0.196	0.196	1.00	0.340	pCi/L	02/22/17 10:27	03/10/17 10:26	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	92.0		40 - 110					02/22/17 10:27	03/10/17 10:26	1
Y Carrier	83.0		40 - 110					02/22/17 10:27	03/10/17 10:26	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	0.101	U	0.208	0.208	5.00	0.340	pCi/L		03/16/17 10:41	1

Client Sample Results

Client: Southern Company
Project/Site: CCR Plant Scherer

TestAmerica Job ID: 400-134140-2
SDG: Ash Pond

Client Sample ID: EB-3(AP)

Lab Sample ID: 400-134140-34

Date Collected: 02/16/17 08:20

Matrix: Water

Date Received: 02/18/17 08:31

Method: 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.0373	U	0.0575	0.0576	1.00	0.100	pCi/L	02/22/17 09:54	03/16/17 06:26	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	82.3		40 - 110					02/22/17 09:54	03/16/17 06:26	1

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.365	U	0.256	0.258	1.00	0.397	pCi/L	02/22/17 10:27	03/10/17 10:26	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	82.3		40 - 110					02/22/17 10:27	03/10/17 10:26	1
Y Carrier	85.6		40 - 110					02/22/17 10:27	03/10/17 10:26	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	0.402		0.263	0.265	5.00	0.397	pCi/L		03/16/17 10:41	1

Definitions/Glossary

Client: Southern Company
Project/Site: CCR Plant Scherer

TestAmerica Job ID: 400-134140-2
SDG: Ash Pond

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
CNF	Contains no Free Liquid
DER	Duplicate error ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision level concentration
MDA	Minimum detectable activity
EDL	Estimated Detection Limit
MDC	Minimum detectable concentration
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
NC	Not Calculated
ND	Not detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RER	Relative error ratio
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)

Lab Chronicle

Client: Southern Company
Project/Site: CCR Plant Scherer

TestAmerica Job ID: 400-134140-2
SDG: Ash Pond

Client Sample ID: SGWA-3

Date Collected: 02/14/17 11:15

Date Received: 02/16/17 08:46

Lab Sample ID: 400-134140-1

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			293713	02/21/17 13:31	MBC	TAL SL
Total/NA	Analysis	9315		1	297724	03/15/17 07:22	MLK	TAL SL
Total/NA	Prep	PrecSep_0			293735	02/21/17 14:03	MBC	TAL SL
Total/NA	Analysis	9320		1	296682	03/09/17 11:11	RTM	TAL SL
Total/NA	Analysis	Ra226_Ra228		1	297984	03/16/17 10:41	RTM	TAL SL

Client Sample ID: FB-1(AP)

Date Collected: 02/14/17 11:00

Date Received: 02/16/17 08:46

Lab Sample ID: 400-134140-2

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			293713	02/21/17 13:31	MBC	TAL SL
Total/NA	Analysis	9315		1	297724	03/15/17 07:22	MLK	TAL SL
Total/NA	Prep	PrecSep_0			293735	02/21/17 14:03	MBC	TAL SL
Total/NA	Analysis	9320		1	296682	03/09/17 11:11	RTM	TAL SL
Total/NA	Analysis	Ra226_Ra228		1	297984	03/16/17 10:41	RTM	TAL SL

Client Sample ID: SGWC-6

Date Collected: 02/14/17 13:45

Date Received: 02/16/17 08:46

Lab Sample ID: 400-134140-3

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			293713	02/21/17 13:31	MBC	TAL SL
Total/NA	Analysis	9315		1	297724	03/15/17 07:22	MLK	TAL SL
Total/NA	Prep	PrecSep_0			293735	02/21/17 14:03	MBC	TAL SL
Total/NA	Analysis	9320		1	296682	03/09/17 11:11	RTM	TAL SL
Total/NA	Analysis	Ra226_Ra228		1	297984	03/16/17 10:41	RTM	TAL SL

Client Sample ID: SGWC-8

Date Collected: 02/14/17 15:05

Date Received: 02/16/17 08:46

Lab Sample ID: 400-134140-4

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			293713	02/21/17 13:31	MBC	TAL SL
Total/NA	Analysis	9315		1	297724	03/15/17 07:22	MLK	TAL SL
Total/NA	Prep	PrecSep_0			293735	02/21/17 14:03	MBC	TAL SL
Total/NA	Analysis	9320		1	296682	03/09/17 11:12	RTM	TAL SL
Total/NA	Analysis	Ra226_Ra228		1	297984	03/16/17 10:41	RTM	TAL SL

Lab Chronicle

Client: Southern Company
Project/Site: CCR Plant Scherer

TestAmerica Job ID: 400-134140-2
SDG: Ash Pond

Client Sample ID: SGWA-5

Date Collected: 02/14/17 09:50

Date Received: 02/16/17 08:46

Lab Sample ID: 400-134140-5

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			293713	02/21/17 13:31	MBC	TAL SL
Total/NA	Analysis	9315		1	297724	03/15/17 07:22	MLK	TAL SL
Total/NA	Prep	PrecSep_0			293735	02/21/17 14:03	MBC	TAL SL
Total/NA	Analysis	9320		1	296682	03/09/17 11:12	RTM	TAL SL
Total/NA	Analysis	Ra226_Ra228		1	297984	03/16/17 10:41	RTM	TAL SL

Client Sample ID: FD-1(AP)

Date Collected: 02/14/17 00:00

Date Received: 02/16/17 08:46

Lab Sample ID: 400-134140-6

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			293713	02/21/17 13:31	MBC	TAL SL
Total/NA	Analysis	9315		1	297724	03/15/17 07:22	MLK	TAL SL
Total/NA	Prep	PrecSep_0			293735	02/21/17 14:03	MBC	TAL SL
Total/NA	Analysis	9320		1	296682	03/09/17 11:12	RTM	TAL SL
Total/NA	Analysis	Ra226_Ra228		1	297984	03/16/17 10:41	RTM	TAL SL

Client Sample ID: SGWA-4

Date Collected: 02/14/17 11:46

Date Received: 02/16/17 08:46

Lab Sample ID: 400-134140-7

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			293713	02/21/17 13:31	MBC	TAL SL
Total/NA	Analysis	9315		1	297724	03/15/17 07:22	MLK	TAL SL
Total/NA	Prep	PrecSep_0			293735	02/21/17 14:03	MBC	TAL SL
Total/NA	Analysis	9320		1	296682	03/09/17 11:12	RTM	TAL SL
Total/NA	Analysis	Ra226_Ra228		1	297984	03/16/17 10:41	RTM	TAL SL

Client Sample ID: SGWC-7

Date Collected: 02/14/17 14:05

Date Received: 02/16/17 08:46

Lab Sample ID: 400-134140-8

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			293713	02/21/17 13:31	MBC	TAL SL
Total/NA	Analysis	9315		1	297882	03/15/17 07:24	RTM	TAL SL
Total/NA	Prep	PrecSep_0			293735	02/21/17 14:03	MBC	TAL SL
Total/NA	Analysis	9320		1	296682	03/09/17 11:12	RTM	TAL SL
Total/NA	Analysis	Ra226_Ra228		1	297984	03/16/17 10:41	RTM	TAL SL

Lab Chronicle

Client: Southern Company
Project/Site: CCR Plant Scherer

TestAmerica Job ID: 400-134140-2
SDG: Ash Pond

Client Sample ID: SGWA-24

Lab Sample ID: 400-134140-9

Date Collected: 02/14/17 10:41

Matrix: Water

Date Received: 02/16/17 08:46

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			293713	02/21/17 13:32	MBC	TAL SL
Total/NA	Analysis	9315		1	297882	03/15/17 07:24	RTM	TAL SL
Total/NA	Prep	PrecSep_0			293735	02/21/17 14:03	MBC	TAL SL
Total/NA	Analysis	9320		1	296683	03/09/17 11:13	RTM	TAL SL
Total/NA	Analysis	Ra226_Ra228		1	297984	03/16/17 10:41	RTM	TAL SL

Client Sample ID: SGWA-1

Lab Sample ID: 400-134140-10

Date Collected: 02/14/17 12:31

Matrix: Water

Date Received: 02/16/17 08:46

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			293713	02/21/17 13:32	MBC	TAL SL
Total/NA	Analysis	9315		1	297882	03/15/17 07:24	RTM	TAL SL
Total/NA	Prep	PrecSep_0			293735	02/21/17 14:03	MBC	TAL SL
Total/NA	Analysis	9320		1	296683	03/09/17 11:13	RTM	TAL SL
Total/NA	Analysis	Ra226_Ra228		1	297984	03/16/17 10:41	RTM	TAL SL

Client Sample ID: SGWA-2

Lab Sample ID: 400-134140-11

Date Collected: 02/14/17 13:56

Matrix: Water

Date Received: 02/16/17 08:46

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			293713	02/21/17 13:32	MBC	TAL SL
Total/NA	Analysis	9315		1	297882	03/15/17 07:24	RTM	TAL SL
Total/NA	Prep	PrecSep_0			293735	02/21/17 14:03	MBC	TAL SL
Total/NA	Analysis	9320		1	296683	03/09/17 11:13	RTM	TAL SL
Total/NA	Analysis	Ra226_Ra228		1	297984	03/16/17 10:41	RTM	TAL SL

Client Sample ID: EB-1(AP)

Lab Sample ID: 400-134140-12

Date Collected: 02/14/17 08:20

Matrix: Water

Date Received: 02/16/17 08:46

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			293883	02/22/17 09:02	MBC	TAL SL
Total/NA	Analysis	9315		1	297965	03/16/17 06:36	RTM	TAL SL
Total/NA	Prep	PrecSep_0			293905	02/22/17 09:50	MBC	TAL SL
Total/NA	Analysis	9320		1	296972	03/10/17 10:22	RTM	TAL SL
Total/NA	Analysis	Ra226_Ra228		1	297984	03/16/17 10:41	RTM	TAL SL

Lab Chronicle

Client: Southern Company
Project/Site: CCR Plant Scherer

TestAmerica Job ID: 400-134140-2
SDG: Ash Pond

Client Sample ID: SGWA-25

Lab Sample ID: 400-134140-13

Date Collected: 02/14/17 15:10

Matrix: Water

Date Received: 02/16/17 08:46

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			293883	02/22/17 09:02	MBC	TAL SL
Total/NA	Analysis	9315		1	297965	03/16/17 06:36	RTM	TAL SL
Total/NA	Prep	PrecSep_0			293905	02/22/17 09:50	MBC	TAL SL
Total/NA	Analysis	9320		1	296972	03/10/17 10:22	RTM	TAL SL
Total/NA	Analysis	Ra226_Ra228		1	297984	03/16/17 10:41	RTM	TAL SL

Client Sample ID: SGWC-10

Lab Sample ID: 400-134140-14

Date Collected: 02/15/17 11:45

Matrix: Water

Date Received: 02/17/17 08:54

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			293883	02/22/17 09:02	MBC	TAL SL
Total/NA	Analysis	9315		1	297965	03/16/17 06:36	RTM	TAL SL
Total/NA	Prep	PrecSep_0			293905	02/22/17 09:50	MBC	TAL SL
Total/NA	Analysis	9320		1	296972	03/10/17 10:22	RTM	TAL SL
Total/NA	Analysis	Ra226_Ra228		1	297984	03/16/17 10:41	RTM	TAL SL

Client Sample ID: EB-2(AP)

Lab Sample ID: 400-134140-15

Date Collected: 02/15/17 10:10

Matrix: Water

Date Received: 02/17/17 08:54

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			293883	02/22/17 09:02	MBC	TAL SL
Total/NA	Analysis	9315		1	297965	03/16/17 06:36	RTM	TAL SL
Total/NA	Prep	PrecSep_0			293905	02/22/17 09:50	MBC	TAL SL
Total/NA	Analysis	9320		1	296972	03/10/17 10:22	RTM	TAL SL
Total/NA	Analysis	Ra226_Ra228		1	297984	03/16/17 10:41	RTM	TAL SL

Client Sample ID: SGWC-12

Lab Sample ID: 400-134140-16

Date Collected: 02/15/17 14:05

Matrix: Water

Date Received: 02/17/17 08:54

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			293883	02/22/17 09:02	MBC	TAL SL
Total/NA	Analysis	9315		1	297965	03/16/17 06:36	RTM	TAL SL
Total/NA	Prep	PrecSep_0			293905	02/22/17 09:50	MBC	TAL SL
Total/NA	Analysis	9320		1	296972	03/10/17 10:22	RTM	TAL SL
Total/NA	Analysis	Ra226_Ra228		1	297984	03/16/17 10:41	RTM	TAL SL

Lab Chronicle

Client: Southern Company
Project/Site: CCR Plant Scherer

TestAmerica Job ID: 400-134140-2
SDG: Ash Pond

Client Sample ID: FB-2(AP)

Lab Sample ID: 400-134140-17

Date Collected: 02/15/17 13:45

Matrix: Water

Date Received: 02/17/17 08:54

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			293883	02/22/17 09:02	MBC	TAL SL
Total/NA	Analysis	9315		1	297965	03/16/17 06:37	RTM	TAL SL
Total/NA	Prep	PrecSep_0			293905	02/22/17 09:50	MBC	TAL SL
Total/NA	Analysis	9320		1	296972	03/10/17 10:22	RTM	TAL SL
Total/NA	Analysis	Ra226_Ra228		1	297984	03/16/17 10:41	RTM	TAL SL

Client Sample ID: SGWC-11

Lab Sample ID: 400-134140-18

Date Collected: 02/15/17 11:50

Matrix: Water

Date Received: 02/17/17 08:54

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			293883	02/22/17 09:02	MBC	TAL SL
Total/NA	Analysis	9315		1	297965	03/16/17 06:37	RTM	TAL SL
Total/NA	Prep	PrecSep_0			293905	02/22/17 09:50	MBC	TAL SL
Total/NA	Analysis	9320		1	296972	03/10/17 10:23	RTM	TAL SL
Total/NA	Analysis	Ra226_Ra228		1	297984	03/16/17 10:41	RTM	TAL SL

Client Sample ID: SGWC-17

Lab Sample ID: 400-134140-19

Date Collected: 02/15/17 13:24

Matrix: Water

Date Received: 02/17/17 08:54

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			293883	02/22/17 09:02	MBC	TAL SL
Total/NA	Analysis	9315		1	297965	03/16/17 06:37	RTM	TAL SL
Total/NA	Prep	PrecSep_0			293905	02/22/17 09:50	MBC	TAL SL
Total/NA	Analysis	9320		1	296972	03/10/17 10:23	RTM	TAL SL
Total/NA	Analysis	Ra226_Ra228		1	297984	03/16/17 10:41	RTM	TAL SL

Client Sample ID: FD-2(AP)

Lab Sample ID: 400-134140-20

Date Collected: 02/15/17 00:00

Matrix: Water

Date Received: 02/17/17 08:54

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			293883	02/22/17 09:02	MBC	TAL SL
Total/NA	Analysis	9315		1	297965	03/16/17 06:37	RTM	TAL SL
Total/NA	Prep	PrecSep_0			293905	02/22/17 09:50	MBC	TAL SL
Total/NA	Analysis	9320		1	296972	03/10/17 10:23	RTM	TAL SL
Total/NA	Analysis	Ra226_Ra228		1	297984	03/16/17 10:41	RTM	TAL SL

Lab Chronicle

Client: Southern Company
Project/Site: CCR Plant Scherer

TestAmerica Job ID: 400-134140-2
SDG: Ash Pond

Client Sample ID: SGWC-13

Lab Sample ID: 400-134140-21

Date Collected: 02/15/17 11:59

Matrix: Water

Date Received: 02/17/17 08:54

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			293883	02/22/17 09:02	MBC	TAL SL
Total/NA	Analysis	9315		1	297965	03/16/17 06:38	RTM	TAL SL
Total/NA	Prep	PrecSep_0			293905	02/22/17 09:50	MBC	TAL SL
Total/NA	Analysis	9320		1	296972	03/10/17 10:23	RTM	TAL SL
Total/NA	Analysis	Ra226_Ra228		1	297984	03/16/17 10:41	RTM	TAL SL

Client Sample ID: SGWC-14

Lab Sample ID: 400-134140-22

Date Collected: 02/15/17 14:07

Matrix: Water

Date Received: 02/17/17 08:54

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			293883	02/22/17 09:02	MBC	TAL SL
Total/NA	Analysis	9315		1	297965	03/16/17 06:38	RTM	TAL SL
Total/NA	Prep	PrecSep_0			293905	02/22/17 09:50	MBC	TAL SL
Total/NA	Analysis	9320		1	296972	03/10/17 10:23	RTM	TAL SL
Total/NA	Analysis	Ra226_Ra228		1	297984	03/16/17 10:41	RTM	TAL SL

Client Sample ID: SGWC-15

Lab Sample ID: 400-134140-23

Date Collected: 02/15/17 16:00

Matrix: Water

Date Received: 02/17/17 08:54

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			293883	02/22/17 09:02	MBC	TAL SL
Total/NA	Analysis	9315		1	297965	03/16/17 06:38	RTM	TAL SL
Total/NA	Prep	PrecSep_0			293905	02/22/17 09:50	MBC	TAL SL
Total/NA	Analysis	9320		1	296972	03/10/17 10:23	RTM	TAL SL
Total/NA	Analysis	Ra226_Ra228		1	297984	03/16/17 10:41	RTM	TAL SL

Client Sample ID: SGWC-23

Lab Sample ID: 400-134140-24

Date Collected: 02/15/17 15:33

Matrix: Water

Date Received: 02/17/17 08:54

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			293883	02/22/17 09:02	MBC	TAL SL
Total/NA	Analysis	9315		1	297953	03/16/17 06:40	RTM	TAL SL
Total/NA	Prep	PrecSep_0			293905	02/22/17 09:50	MBC	TAL SL
Total/NA	Analysis	9320		1	296972	03/10/17 10:23	RTM	TAL SL
Total/NA	Analysis	Ra226_Ra228		1	297984	03/16/17 10:41	RTM	TAL SL

Lab Chronicle

Client: Southern Company
Project/Site: CCR Plant Scherer

TestAmerica Job ID: 400-134140-2
SDG: Ash Pond

Client Sample ID: SGWC-19

Lab Sample ID: 400-134140-25

Date Collected: 02/16/17 11:56

Matrix: Water

Date Received: 02/18/17 08:31

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			293883	02/22/17 09:02	MBC	TAL SL
Total/NA	Analysis	9315		1	297953	03/16/17 06:40	RTM	TAL SL
Total/NA	Prep	PrecSep_0			293905	02/22/17 09:50	MBC	TAL SL
Total/NA	Analysis	9320		1	296972	03/10/17 10:23	RTM	TAL SL
Total/NA	Analysis	Ra226_Ra228		1	297984	03/16/17 10:41	RTM	TAL SL

Client Sample ID: SGWC-9

Lab Sample ID: 400-134140-26

Date Collected: 02/16/17 14:08

Matrix: Water

Date Received: 02/18/17 08:31

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			293883	02/22/17 09:02	MBC	TAL SL
Total/NA	Analysis	9315		1	297953	03/16/17 06:41	RTM	TAL SL
Total/NA	Prep	PrecSep_0			293905	02/22/17 09:50	MBC	TAL SL
Total/NA	Analysis	9320		1	296973	03/10/17 10:24	RTM	TAL SL
Total/NA	Analysis	Ra226_Ra228		1	297984	03/16/17 10:41	RTM	TAL SL

Client Sample ID: SGWC-16

Lab Sample ID: 400-134140-27

Date Collected: 02/16/17 10:10

Matrix: Water

Date Received: 02/18/17 08:31

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			293883	02/22/17 09:02	MBC	TAL SL
Total/NA	Analysis	9315		1	297953	03/16/17 06:41	RTM	TAL SL
Total/NA	Prep	PrecSep_0			293905	02/22/17 09:50	MBC	TAL SL
Total/NA	Analysis	9320		1	296973	03/10/17 10:24	RTM	TAL SL
Total/NA	Analysis	Ra226_Ra228		1	297984	03/16/17 10:41	RTM	TAL SL

Client Sample ID: FD-3(AP)

Lab Sample ID: 400-134140-28

Date Collected: 02/16/17 00:00

Matrix: Water

Date Received: 02/18/17 08:31

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			293883	02/22/17 09:02	MBC	TAL SL
Total/NA	Analysis	9315		1	297953	03/16/17 06:41	RTM	TAL SL
Total/NA	Prep	PrecSep_0			293905	02/22/17 09:50	MBC	TAL SL
Total/NA	Analysis	9320		1	296973	03/10/17 10:24	RTM	TAL SL
Total/NA	Analysis	Ra226_Ra228		1	297984	03/16/17 10:41	RTM	TAL SL

Lab Chronicle

Client: Southern Company
Project/Site: CCR Plant Scherer

TestAmerica Job ID: 400-134140-2
SDG: Ash Pond

Client Sample ID: SGWC-22

Lab Sample ID: 400-134140-29

Date Collected: 02/16/17 10:22

Matrix: Water

Date Received: 02/18/17 08:31

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			293883	02/22/17 09:02	MBC	TAL SL
Total/NA	Analysis	9315		1	297953	03/16/17 06:41	RTM	TAL SL
Total/NA	Prep	PrecSep_0			293905	02/22/17 09:50	MBC	TAL SL
Total/NA	Analysis	9320		1	296973	03/10/17 10:24	RTM	TAL SL
Total/NA	Analysis	Ra226_Ra228		1	297984	03/16/17 10:41	RTM	TAL SL

Client Sample ID: FB-3(AP)

Lab Sample ID: 400-134140-30

Date Collected: 02/16/17 10:30

Matrix: Water

Date Received: 02/18/17 08:31

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			293906	02/22/17 09:54	MBC	TAL SL
Total/NA	Analysis	9315		1	297941	03/16/17 06:26	RTM	TAL SL
Total/NA	Prep	PrecSep_0			293916	02/22/17 10:27	MBC	TAL SL
Total/NA	Analysis	9320		1	296973	03/10/17 10:26	RTM	TAL SL
Total/NA	Analysis	Ra226_Ra228		1	297984	03/16/17 10:41	RTM	TAL SL

Client Sample ID: SGWC-21

Lab Sample ID: 400-134140-31

Date Collected: 02/16/17 11:48

Matrix: Water

Date Received: 02/18/17 08:31

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			293906	02/22/17 09:54	MBC	TAL SL
Total/NA	Analysis	9315		1	297941	03/16/17 06:26	RTM	TAL SL
Total/NA	Prep	PrecSep_0			293916	02/22/17 10:27	MBC	TAL SL
Total/NA	Analysis	9320		1	296973	03/10/17 10:26	RTM	TAL SL
Total/NA	Analysis	Ra226_Ra228		1	297984	03/16/17 10:41	RTM	TAL SL

Client Sample ID: SGWC-20

Lab Sample ID: 400-134140-32

Date Collected: 02/16/17 13:32

Matrix: Water

Date Received: 02/18/17 08:31

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			293906	02/22/17 09:54	MBC	TAL SL
Total/NA	Analysis	9315		1	297941	03/16/17 06:26	RTM	TAL SL
Total/NA	Prep	PrecSep_0			293916	02/22/17 10:27	MBC	TAL SL
Total/NA	Analysis	9320		1	296973	03/10/17 10:26	RTM	TAL SL
Total/NA	Analysis	Ra226_Ra228		1	297984	03/16/17 10:41	RTM	TAL SL

TestAmerica Pensacola

Lab Chronicle

Client: Southern Company
Project/Site: CCR Plant Scherer

TestAmerica Job ID: 400-134140-2
SDG: Ash Pond

Client Sample ID: SGWC-18

Lab Sample ID: 400-134140-33

Date Collected: 02/16/17 15:11

Matrix: Water

Date Received: 02/18/17 08:31

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			293906	02/22/17 09:54	MBC	TAL SL
Total/NA	Analysis	9315		1	297941	03/16/17 06:26	RTM	TAL SL
Total/NA	Prep	PrecSep_0			293916	02/22/17 10:27	MBC	TAL SL
Total/NA	Analysis	9320		1	296973	03/10/17 10:26	RTM	TAL SL
Total/NA	Analysis	Ra226_Ra228		1	297984	03/16/17 10:41	RTM	TAL SL

Client Sample ID: EB-3(AP)

Lab Sample ID: 400-134140-34

Date Collected: 02/16/17 08:20

Matrix: Water

Date Received: 02/18/17 08:31

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			293906	02/22/17 09:54	MBC	TAL SL
Total/NA	Analysis	9315		1	297941	03/16/17 06:26	RTM	TAL SL
Total/NA	Prep	PrecSep_0			293916	02/22/17 10:27	MBC	TAL SL
Total/NA	Analysis	9320		1	296973	03/10/17 10:26	RTM	TAL SL
Total/NA	Analysis	Ra226_Ra228		1	297984	03/16/17 10:41	RTM	TAL SL

Laboratory References:

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

QC Association Summary

Client: Southern Company
Project/Site: CCR Plant Scherer

TestAmerica Job ID: 400-134140-2
SDG: Ash Pond

Rad

Prep Batch: 293713

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-134140-1	SGWA-3	Total/NA	Water	PrecSep-21	
400-134140-2	FB-1(AP)	Total/NA	Water	PrecSep-21	
400-134140-3	SGWC-6	Total/NA	Water	PrecSep-21	
400-134140-4	SGWC-8	Total/NA	Water	PrecSep-21	
400-134140-5	SGWA-5	Total/NA	Water	PrecSep-21	
400-134140-6	FD-1(AP)	Total/NA	Water	PrecSep-21	
400-134140-7	SGWA-4	Total/NA	Water	PrecSep-21	
400-134140-8	SGWC-7	Total/NA	Water	PrecSep-21	
400-134140-9	SGWA-24	Total/NA	Water	PrecSep-21	
400-134140-10	SGWA-1	Total/NA	Water	PrecSep-21	
400-134140-11	SGWA-2	Total/NA	Water	PrecSep-21	
MB 160-293713/1-A	Method Blank	Total/NA	Water	PrecSep-21	
LCS 160-293713/2-A	Lab Control Sample	Total/NA	Water	PrecSep-21	
400-134140-10 DU	SGWA-1	Total/NA	Water	PrecSep-21	

Prep Batch: 293735

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-134140-1	SGWA-3	Total/NA	Water	PrecSep_0	
400-134140-2	FB-1(AP)	Total/NA	Water	PrecSep_0	
400-134140-3	SGWC-6	Total/NA	Water	PrecSep_0	
400-134140-4	SGWC-8	Total/NA	Water	PrecSep_0	
400-134140-5	SGWA-5	Total/NA	Water	PrecSep_0	
400-134140-6	FD-1(AP)	Total/NA	Water	PrecSep_0	
400-134140-7	SGWA-4	Total/NA	Water	PrecSep_0	
400-134140-8	SGWC-7	Total/NA	Water	PrecSep_0	
400-134140-9	SGWA-24	Total/NA	Water	PrecSep_0	
400-134140-10	SGWA-1	Total/NA	Water	PrecSep_0	
400-134140-11	SGWA-2	Total/NA	Water	PrecSep_0	
MB 160-293735/1-A	Method Blank	Total/NA	Water	PrecSep_0	
LCS 160-293735/2-A	Lab Control Sample	Total/NA	Water	PrecSep_0	
400-133856-A-13-B DU	Duplicate	Total/NA	Water	PrecSep_0	
400-134140-10 DU	SGWA-1	Total/NA	Water	PrecSep_0	

Prep Batch: 293883

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-134140-12	EB-1(AP)	Total/NA	Water	PrecSep-21	
400-134140-13	SGWA-25	Total/NA	Water	PrecSep-21	
400-134140-14	SGWC-10	Total/NA	Water	PrecSep-21	
400-134140-15	EB-2(AP)	Total/NA	Water	PrecSep-21	
400-134140-16	SGWC-12	Total/NA	Water	PrecSep-21	
400-134140-17	FB-2(AP)	Total/NA	Water	PrecSep-21	
400-134140-18	SGWC-11	Total/NA	Water	PrecSep-21	
400-134140-19	SGWC-17	Total/NA	Water	PrecSep-21	
400-134140-20	FD-2(AP)	Total/NA	Water	PrecSep-21	
400-134140-21	SGWC-13	Total/NA	Water	PrecSep-21	
400-134140-22	SGWC-14	Total/NA	Water	PrecSep-21	
400-134140-23	SGWC-15	Total/NA	Water	PrecSep-21	
400-134140-24	SGWC-23	Total/NA	Water	PrecSep-21	
400-134140-25	SGWC-19	Total/NA	Water	PrecSep-21	
400-134140-26	SGWC-9	Total/NA	Water	PrecSep-21	
400-134140-27	SGWC-16	Total/NA	Water	PrecSep-21	

TestAmerica Pensacola

QC Association Summary

Client: Southern Company
Project/Site: CCR Plant Scherer

TestAmerica Job ID: 400-134140-2
SDG: Ash Pond

Rad (Continued)

Prep Batch: 293883 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-134140-28	FD-3(AP)	Total/NA	Water	PrecSep-21	
400-134140-29	SGWC-22	Total/NA	Water	PrecSep-21	
MB 160-293883/1-A	Method Blank	Total/NA	Water	PrecSep-21	
LCS 160-293883/2-A	Lab Control Sample	Total/NA	Water	PrecSep-21	
400-134140-21 DU	SGWC-13	Total/NA	Water	PrecSep-21	
400-134140-25 DU	SGWC-19	Total/NA	Water	PrecSep-21	

Prep Batch: 293905

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-134140-12	EB-1(AP)	Total/NA	Water	PrecSep_0	
400-134140-13	SGWA-25	Total/NA	Water	PrecSep_0	
400-134140-14	SGWC-10	Total/NA	Water	PrecSep_0	
400-134140-15	EB-2(AP)	Total/NA	Water	PrecSep_0	
400-134140-16	SGWC-12	Total/NA	Water	PrecSep_0	
400-134140-17	FB-2(AP)	Total/NA	Water	PrecSep_0	
400-134140-18	SGWC-11	Total/NA	Water	PrecSep_0	
400-134140-19	SGWC-17	Total/NA	Water	PrecSep_0	
400-134140-20	FD-2(AP)	Total/NA	Water	PrecSep_0	
400-134140-21	SGWC-13	Total/NA	Water	PrecSep_0	
400-134140-22	SGWC-14	Total/NA	Water	PrecSep_0	
400-134140-23	SGWC-15	Total/NA	Water	PrecSep_0	
400-134140-24	SGWC-23	Total/NA	Water	PrecSep_0	
400-134140-25	SGWC-19	Total/NA	Water	PrecSep_0	
400-134140-26	SGWC-9	Total/NA	Water	PrecSep_0	
400-134140-27	SGWC-16	Total/NA	Water	PrecSep_0	
400-134140-28	FD-3(AP)	Total/NA	Water	PrecSep_0	
400-134140-29	SGWC-22	Total/NA	Water	PrecSep_0	
MB 160-293905/1-A	Method Blank	Total/NA	Water	PrecSep_0	
LCS 160-293905/2-A	Lab Control Sample	Total/NA	Water	PrecSep_0	
400-134140-21 DU	SGWC-13	Total/NA	Water	PrecSep_0	
400-134140-25 DU	SGWC-19	Total/NA	Water	PrecSep_0	

Prep Batch: 293906

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-134140-30	FB-3(AP)	Total/NA	Water	PrecSep-21	
400-134140-31	SGWC-21	Total/NA	Water	PrecSep-21	
400-134140-32	SGWC-20	Total/NA	Water	PrecSep-21	
400-134140-33	SGWC-18	Total/NA	Water	PrecSep-21	
400-134140-34	EB-3(AP)	Total/NA	Water	PrecSep-21	
MB 160-293906/1-A	Method Blank	Total/NA	Water	PrecSep-21	
LCS 160-293906/2-A	Lab Control Sample	Total/NA	Water	PrecSep-21	
LCSD 160-293906/3-A	Lab Control Sample Dup	Total/NA	Water	PrecSep-21	

Prep Batch: 293916

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-134140-30	FB-3(AP)	Total/NA	Water	PrecSep_0	
400-134140-31	SGWC-21	Total/NA	Water	PrecSep_0	
400-134140-32	SGWC-20	Total/NA	Water	PrecSep_0	
400-134140-33	SGWC-18	Total/NA	Water	PrecSep_0	
400-134140-34	EB-3(AP)	Total/NA	Water	PrecSep_0	
MB 160-293916/1-A	Method Blank	Total/NA	Water	PrecSep_0	

TestAmerica Pensacola

QC Association Summary

Client: Southern Company
Project/Site: CCR Plant Scherer

TestAmerica Job ID: 400-134140-2
SDG: Ash Pond

Rad (Continued)

Prep Batch: 293916 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCS 160-293916/2-A	Lab Control Sample	Total/NA	Water	PrecSep_0	
LCSD 160-293916/3-A	Lab Control Sample Dup	Total/NA	Water	PrecSep_0	

1

2

3

4

5

6

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10

11

12

13

QC Sample Results

Client: Southern Company
Project/Site: CCR Plant Scherer

TestAmerica Job ID: 400-134140-2
SDG: Ash Pond

Method: 9315 - Radium-226 (GFPC)

Lab Sample ID: MB 160-293713/1-A
Matrix: Water
Analysis Batch: 297724

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 293713

Analyte	MB MB		Count	Total	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
	Result	Qualifier	Uncert. (2σ+/-)	Uncert. (2σ+/-)						
Radium-226	-0.01159	U	0.0675	0.0675	1.00	0.140	pCi/L	02/21/17 13:31	03/15/17 07:21	1
Carrier	MB MB		Limits			Prepared	Analyzed	Dil Fac		
Ba Carrier	%Yield	Qualifier		Prepared	Analyzed					
Ba Carrier	91.4		40 - 110	02/21/17 13:31	03/15/17 07:21	1				

Lab Sample ID: LCS 160-293713/2-A
Matrix: Water
Analysis Batch: 297724

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 293713

Analyte	Spike Added	LCS Result	LCS Qual	Total	RL	MDC	Unit	%Rec	%Rec. Limits
				Uncert. (2σ+/-)					
Radium-226	11.4	10.70		1.14	1.00	0.134	pCi/L	94	68 - 137
Carrier	LCS LCS		Limits			Prepared	Analyzed	Dil Fac	
Ba Carrier	%Yield	Qualifier		Prepared	Analyzed				
Ba Carrier	92.6		40 - 110	02/21/17 13:31	03/15/17 07:21	1			

Lab Sample ID: 400-134140-10 DU
Matrix: Water
Analysis Batch: 297882

Client Sample ID: SGWA-1
Prep Type: Total/NA
Prep Batch: 293713

Analyte	Sample Sample		DU	DU	Total	RL	MDC	Unit	RER	RER Limit
	Result	Qual	Result	Qual	Uncert. (2σ+/-)					
Radium-226	0.0307	U	0.02829	U	0.0571	1.00	0.103	pCi/L	0.02	1
Carrier	DU DU		Limits			Prepared	Analyzed	Dil Fac		
Ba Carrier	%Yield	Qualifier		Prepared	Analyzed					
Ba Carrier	97.3		40 - 110	02/21/17 13:31	03/15/17 07:21	1				

Lab Sample ID: MB 160-293883/1-A
Matrix: Water
Analysis Batch: 297965

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 293883

Analyte	MB MB		Count	Total	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
	Result	Qualifier	Uncert. (2σ+/-)	Uncert. (2σ+/-)						
Radium-226	-0.02274	U	0.0643	0.0643	1.00	0.138	pCi/L	02/22/17 09:02	03/16/17 06:35	1
Carrier	MB MB		Limits			Prepared	Analyzed	Dil Fac		
Ba Carrier	%Yield	Qualifier		Prepared	Analyzed					
Ba Carrier	93.2		40 - 110	02/22/17 09:02	03/16/17 06:35	1				

Lab Sample ID: LCS 160-293883/2-A
Matrix: Water
Analysis Batch: 297965

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 293883

Analyte	Spike Added	LCS Result	LCS Qual	Total	RL	MDC	Unit	%Rec	%Rec. Limits
				Uncert. (2σ+/-)					
Radium-226	11.4	9.671		1.02	1.00	0.110	pCi/L	85	68 - 137

TestAmerica Pensacola

QC Sample Results

Client: Southern Company
Project/Site: CCR Plant Scherer

TestAmerica Job ID: 400-134140-2
SDG: Ash Pond

Method: 9315 - Radium-226 (GFPC) (Continued)

Lab Sample ID: LCS 160-293883/2-A
Matrix: Water
Analysis Batch: 297965

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 293883

	LCS	LCS	
Carrier	%Yield	Qualifier	Limits
Ba Carrier	97.6		40 - 110

Lab Sample ID: 400-134140-21 DU
Matrix: Water
Analysis Batch: 297965

Client Sample ID: SGWC-13
Prep Type: Total/NA
Prep Batch: 293883

Analyte	Sample Result	Sample Qual	DU Result	DU Qual	Total Uncert. (2σ+/-)	RL	MDC	Unit	RER	
									RER	Limit
Radium-226	-0.0172	U	0.05496	U	0.0667	1.00	0.109	pCi/L	0.61	1

	DU	DU	
Carrier	%Yield	Qualifier	Limits
Ba Carrier	92.6		40 - 110

Lab Sample ID: 400-134140-25 DU
Matrix: Water
Analysis Batch: 297953

Client Sample ID: SGWC-19
Prep Type: Total/NA
Prep Batch: 293883

Analyte	Sample Result	Sample Qual	DU Result	DU Qual	Total Uncert. (2σ+/-)	RL	MDC	Unit	RER	
									RER	Limit
Radium-226	0.0886	U	-0.01274	U	0.0608	1.00	0.133	pCi/L	0.70	1

	DU	DU	
Carrier	%Yield	Qualifier	Limits
Ba Carrier	90.9		40 - 110

Lab Sample ID: MB 160-293906/1-A
Matrix: Water
Analysis Batch: 297941

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 293906

Analyte	MB Result	MB Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac

	MB	MB	
Carrier	%Yield	Qualifier	Limits
Ba Carrier	90.9		40 - 110

	Prepared	Analyzed	Dil Fac
Ba Carrier	02/22/17 09:54	03/16/17 06:25	1

Lab Sample ID: LCS 160-293906/2-A
Matrix: Water
Analysis Batch: 297941

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 293906

Analyte	Spike Added	LCS Result	LCS Qual	Total Uncert. (2σ+/-)	RL	MDC	Unit	%Rec	%Rec. Limits	
									%Rec	Limits
Radium-226	11.4	10.92		1.16	1.00	0.131	pCi/L	96	68 - 137	

	LCS	LCS	
Carrier	%Yield	Qualifier	Limits
Ba Carrier	88.8		40 - 110

QC Sample Results

Client: Southern Company
Project/Site: CCR Plant Scherer

TestAmerica Job ID: 400-134140-2
SDG: Ash Pond

Method: 9315 - Radium-226 (GFPC) (Continued)

Lab Sample ID: LCSD 160-293906/3-A
Matrix: Water
Analysis Batch: 297941

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 293906

Analyte	Spike Added	LCSD Result	LCSD Qual	Total Uncert. (2σ+/-)	RL	MDC	Unit	%Rec	%Rec. Limits	RER	RER Limit
Radium-226	11.4	10.93		1.16	1.00	0.132	pCi/L	96	68 - 137	0	1
Carrier	%Yield	LCSD Qualifier	Limits								
Ba Carrier	92.6		40 - 110								

Method: 9320 - Radium-228 (GFPC)

Lab Sample ID: MB 160-293735/1-A
Matrix: Water
Analysis Batch: 296682

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 293735

Analyte	MB Result	MB Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.1215	U	0.237	0.237	1.00	0.403	pCi/L	02/21/17 14:03	03/09/17 11:10	1
Carrier	%Yield	MB Qualifier	Limits							
Ba Carrier	91.4		40 - 110							
Y Carrier	85.2		40 - 110							
								Prepared	Analyzed	Dil Fac
								02/21/17 14:03	03/09/17 11:10	1
								02/21/17 14:03	03/09/17 11:10	1

Lab Sample ID: LCS 160-293735/2-A
Matrix: Water
Analysis Batch: 296682

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 293735

Analyte	Spike Added	LCS Result	LCS Qual	Total Uncert. (2σ+/-)	RL	MDC	Unit	%Rec	%Rec. Limits	
Radium-228	13.7	14.44		1.55	1.00	0.362	pCi/L	105	56 - 140	
Carrier	%Yield	LCS Qualifier	Limits							
Ba Carrier	92.6		40 - 110							
Y Carrier	91.6		40 - 110							

Lab Sample ID: 400-133856-A-13-B DU
Matrix: Water
Analysis Batch: 296682

Client Sample ID: Duplicate
Prep Type: Total/NA
Prep Batch: 293735

Analyte	Sample Result	Sample Qual	DU Result	DU Qual	Total Uncert. (2σ+/-)	RL	MDC	Unit	RER	RER Limit
Radium-228	0.487		0.2823	U	0.220	1.00	0.344	pCi/L	0.43	1
Carrier	%Yield	DU Qualifier	Limits							
Ba Carrier	95.9		40 - 110							
Y Carrier	88.6		40 - 110							

QC Sample Results

Client: Southern Company
Project/Site: CCR Plant Scherer

TestAmerica Job ID: 400-134140-2
SDG: Ash Pond

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

Lab Sample ID: 400-134140-10 DU
Matrix: Water
Analysis Batch: 296683

Client Sample ID: SGWA-1
Prep Type: Total/NA
Prep Batch: 293735

Analyte	Sample		DU		Total Uncert. (2σ+/-)	RL	MDC	Unit	RER	RER Limit
	Result	Qual	Result	Qual						
Radium-228	0.321	U	-0.1202	U	0.215	1.00	0.399	pCi/L	0.95	1
DU DU										
Carrier	%Yield	Qualifier	Limits							
Ba Carrier	97.3		40 - 110							
Y Carrier	89.7		40 - 110							

Lab Sample ID: MB 160-293905/1-A
Matrix: Water
Analysis Batch: 296972

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 293905

Analyte	MB MB		Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
	Result	Qualifier								
Radium-228	0.07148	U	0.213	0.213	1.00	0.369	pCi/L	02/22/17 09:50	03/10/17 10:21	1
MB MB										
Carrier	%Yield	Qualifier	Limits				Prepared	Analyzed	Dil Fac	
Ba Carrier	93.2		40 - 110				02/22/17 09:50	03/10/17 10:21	1	
Y Carrier	86.7		40 - 110				02/22/17 09:50	03/10/17 10:21	1	

Lab Sample ID: LCS 160-293905/2-A
Matrix: Water
Analysis Batch: 296972

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 293905

Analyte	Spike Added	LCS Result	LCS Qual	Total Uncert. (2σ+/-)	RL	MDC	Unit	%Rec	%Rec. Limits
LCS LCS									
Carrier	%Yield	Qualifier	Limits						
Ba Carrier	97.6		40 - 110						
Y Carrier	84.1		40 - 110						

Lab Sample ID: 400-134140-21 DU
Matrix: Water
Analysis Batch: 296972

Client Sample ID: SGWC-13
Prep Type: Total/NA
Prep Batch: 293905

Analyte	Sample		DU		Total Uncert. (2σ+/-)	RL	MDC	Unit	RER	RER Limit
	Result	Qual	Result	Qual						
Radium-228	-0.206	U	0.1025	U	0.209	1.00	0.358	pCi/L	0.70	1
DU DU										
Carrier	%Yield	Qualifier	Limits							
Ba Carrier	92.6		40 - 110							
Y Carrier	84.5		40 - 110							

QC Sample Results

Client: Southern Company
Project/Site: CCR Plant Scherer

TestAmerica Job ID: 400-134140-2
SDG: Ash Pond

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

Lab Sample ID: 400-134140-25 DU
Matrix: Water
Analysis Batch: 296972

Client Sample ID: SGWC-19
Prep Type: Total/NA
Prep Batch: 293905

Analyte	Sample Result	Sample Qual	DU Result	DU Qual	Total Uncert. (2σ+/-)	RL	MDC	Unit	RER	RER Limit
Radium-228	0.0571	U	0.06678	U	0.198	1.00	0.345	pCi/L	0.02	1

Carrier	%Yield	DU Qualifier	Limits
Ba Carrier	90.9		40 - 110
Y Carrier	86.4		40 - 110

Lab Sample ID: MB 160-293916/1-A
Matrix: Water
Analysis Batch: 296973

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 293916

Analyte	MB Result	MB Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.2732	U	0.267	0.269	1.00	0.434	pCi/L	02/22/17 10:27	03/10/17 10:26	1

Carrier	%Yield	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
Ba Carrier	90.9		40 - 110	02/22/17 10:27	03/10/17 10:26	1
Y Carrier	84.1		40 - 110	02/22/17 10:27	03/10/17 10:26	1

Lab Sample ID: LCS 160-293916/2-A
Matrix: Water
Analysis Batch: 296973

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 293916

Analyte	Spike Added	LCS Result	LCS Qual	Total Uncert. (2σ+/-)	RL	MDC	Unit	%Rec	%Rec. Limits
Radium-228	13.7	16.76		1.79	1.00	0.418	pCi/L	122	56 - 140

Carrier	%Yield	LCS Qualifier	Limits
Ba Carrier	88.8		40 - 110
Y Carrier	80.4		40 - 110

Lab Sample ID: LCSD 160-293916/3-A
Matrix: Water
Analysis Batch: 296973

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 293916

Analyte	Spike Added	LCSD Result	LCSD Qual	Total Uncert. (2σ+/-)	RL	MDC	Unit	%Rec	%Rec. Limits	RER	RER Limit
Radium-228	13.7	16.38		1.75	1.00	0.382	pCi/L	119	56 - 140	0.11	1

Carrier	%Yield	LCSD Qualifier	Limits
Ba Carrier	92.6		40 - 110
Y Carrier	78.1		40 - 110

QC Sample Results

Client: Southern Company
 Project/Site: CCR Plant Scherer

TestAmerica Job ID: 400-134140-2
 SDG: Ash Pond

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

Lab Sample ID: 400-134140-10 DU
Matrix: Water
Analysis Batch: 297984

Client Sample ID: SGWA-1
Prep Type: Total/NA

Analyte	Sample	Sample	DU	DU	Total	RL	MDC	Unit	RER	RER	Limit
	Result	Qual	Result	Qual	Uncert. (2σ+/-)						
Combined Radium 226 + 228	0.352	U	-0.09187	U	0.222	5.00	0.399	pCi/L	0.93		

Lab Sample ID: 400-134140-21 DU
Matrix: Water
Analysis Batch: 297984

Client Sample ID: SGWC-13
Prep Type: Total/NA

Analyte	Sample	Sample	DU	DU	Total	RL	MDC	Unit	RER	RER	Limit
	Result	Qual	Result	Qual	Uncert. (2σ+/-)						
Combined Radium 226 + 228	-0.223	U	0.1575	U	0.220	5.00	0.358	pCi/L	0.83		

Lab Sample ID: 400-134140-25 DU
Matrix: Water
Analysis Batch: 297984

Client Sample ID: SGWC-19
Prep Type: Total/NA

Analyte	Sample	Sample	DU	DU	Total	RL	MDC	Unit	RER	RER	Limit
	Result	Qual	Result	Qual	Uncert. (2σ+/-)						
Combined Radium 226 + 228	0.146	U	0.05404	U	0.207	5.00	0.345	pCi/L	0.21		

TestAmerica Pensacola
 3355 McLemore Drive
 Pensacola, FL 32514
 Phone (850) 474-1001 Fax (850) 478-2671

Chain of Custody Record

TestAmerica
 THE LEADER IN ENVIRONMENTAL TESTING

Client Information Company: Southern Company Address: 241 Ralph McGill Blvd SE B10185 City: Atlanta State, Zip: GA, 30308 Phone: Email: JAbraham@southernco.com Project Name: CCR - Scheater Site: Ash Pond		Lab P/N: Whitmire, Cheyenne R E-Mail: cheyenne.whitmire@testamericainc.com Due Date Requested: TAT Requested (days): PO #: GPC10524814 IVO #: Project #: 40007041 SSOW#:		Sampler: Ben Hodges Phone: 912-258-7457 Carrier Tracking No(s): Analysis Requested: 2440C-TDS, 300_ORP, 916_Ra226, 920_Ra228, Ra226Ra228, GPPC 6020-9B, 9A, 9B, 9C, 9D, 9E, 9F, 9G, 9H, 9I, 9J, 9K, 9L, 9M, 9N, 9O, 9P, 9Q, 9R, 9S, 9T, 9U, 9V, 9W, 9X, 9Y, 9Z 916_Ra226, 920_Ra228, Ra226Ra228, GPPC		COC No: 400-57303-24790.8 Page: 1 of 1 Job #: 400-134140		
Sample ID	Sample Date	Sample Time	Sample Type (C=Comp, G=Grab)	Matrix (Water, Solid, Swab, etc)	Field # (or Sample Tag or No)	Field Name (or Description)	Total Number of Containers	Special Instructions/Note
SGWA-3	2/14/17	1115	G	Water	N	1	1	
FB-1(AP)	2/14/17	1100	G	Water	N	1	1	
SGWC-6	2/14/17	1345	G	Water	N	1	1	
SGWC-8	2/14/17	1505	G	Water	N	1	1	
SGWA-5	2/14/17	0850	G	Water	N	1	1	
FD-1(AP)	2/14/17	-	G	Water	N	1	1	
SGWA-4	2/14/17	1146	G	Water	N	1	1	
SGWC-7	2/14/17	1405	G	Water	N	1	1	
SGWA-24	2/14/17	1041	G	Water	N	1	1	
SGWA-1	2/14/17	1231	G	Water	N	1	2	
SGWA-2	2/14/17	1356	G	Water	N	1	1	
EB-1(AP)	2/14/17	0820	G	Water	N	1	1	
SGWA-25	2/14/17	1510	G	Water	N	1	1	
Possible Hazard Identification <input checked="" type="checkbox"/> Non-Hazard <input type="checkbox"/> Flammable <input type="checkbox"/> Skin Irritant <input type="checkbox"/> Poison B <input type="checkbox"/> Unknown <input type="checkbox"/> Radiological Deliverable Requested: I, II, III, IV, Other (specify)								
Empty Kit Relinquished by: Ben Hodges Date: 2/15/17 09:35 Relinquished by: M. BATH Date: 2/15/17 11:20 Relinquished by: M. BATH Date: 2/15/17 11:21 Custody Seals Intact: <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No Custody Seal No.: 2001 2100 JR 7								
Sample Disposal (A fee may be assessed if samples are retained longer than 1 month) <input type="checkbox"/> Return To Client <input checked="" type="checkbox"/> Disposal By Lab <input type="checkbox"/> Archive For Months Special Instructions/QC Requirements: Please send a copy of report to Maria Padilla at GPC Labs Method of Shipment:								
Received By: M. BATH Date/Time: 2-15-17 9:35 Company: C-NEW Received By: M. BATH Date/Time: 2-15-17 11:20 Company: C-NEW Received By: M. BATH Date/Time: 2-15-17 08:46 Company: C-NEW Cooler Temperature(s) °C and Other Remarks:								



TestAmerica Pensacola
 3355 McLemore Drive
 Pensacola, FL 32514
 Phone (850) 474-1001 Fax (850) 478-2671

TestAmerica
 THE LEADER IN ENVIRONMENTAL TESTING

Chain of Custody Record

Client Information		Lab Pit: Whitnrite, Cheyenne R		COC No: 400-57303-24790.8	
Southern Company		E-Mail: cheyenne.whitnrite@testamericainc.com		Page: Page 1 of 1	
Address: 241 Ralph McGill Blvd SE B10185		Due Date Requested:		Job #:	
City: Atlanta		TAT Requested (days):		Preservation Codes:	
State, Zip: GA, 30308		PO #: GPC10624814		M - Hexane N - None O - Acetic P - Na2CO3 Q - Na2SO3 R - NaHSO4 S - H2SO4 T - TSP Dodecylhydrate U - Acetone V - MCAA W - Ph 4.5 X - EDA Z - other (specify)	
Phone:		WIO #:		Other:	
Email: JA.Brahm@southernco.com		Project #:		Special Instructions/Note:	
Project Name: CCR - Scherer		40007041		Total Number of Equations:	
Site: Ash Pond		SSOW#:		Field Filled Sample (Yes or No)	
Sample Identification		Sample Date		Sample Time	
Sample Type (C-Comp, G-Grab)		Sample Time		Matrix (W-water, S-sweat, D-dew, A-air)	
Sample Date		Sample Time		Preservation Code	
SGWC-10		2/15/17		G	
EB-2(AP)		2/15/17		G	
SGWC-12		2/15/17		G	
FB-2(AP)		2/15/17		G	
SGWC-11		2/15/17		G	
SGWC-17		2/15/17		G	
FD-2(AP)		2/15/17		G	
SGWC-13		2/15/17		G	
SGWC-14		2/15/17		G	
SGWC-15		2/15/17		G	
SGWC-23		2/15/17		G	
Possible Hazard Identification		Sample Disposal (Yes or No)		Special Instructions/Note:	
<input type="checkbox"/> Non-Hazard <input type="checkbox"/> Flammable <input type="checkbox"/> Skin Irritant <input type="checkbox"/> Poison B <input type="checkbox"/> Unknown <input type="checkbox"/> Radiological		0020-9B, A5, B9, C4, C7, D0, P1, L1, M0, S0, T1, 7470A-Hg		Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)	
Deliverable Requested: I, II, III, IV, Other (specify)		2640C-TDS, 300_ORFM_26D-chloride, fluoride, sulfate		<input type="checkbox"/> Return To Client <input checked="" type="checkbox"/> Disposal By Lab <input type="checkbox"/> Archive For _____ Months	
Empty Kit Relinquished by:		Date:		Special Instructions/QC Requirements: Please send a copy of report to Mainia Padilla at GPC Labs	
Ben Hodges		2/16/17		Method of Shipment:	
Relinquished by: M. BAH		Date/Time: 2/16/17 0800		Received by: M. BAH	
Relinquished by: M. BAH		Date/Time: 2/16/17 8:00		Received by: C. New	
Relinquished by: M. BAH		Date/Time: 2/16/17 0854		Received by: M. BAH	
Custody Seal No.:		2/16/17		Cooler Temperature(s) °C and Other Remarks: 118C, 6.7C	



TestAmerica Pensacola

3355 McLemore Drive
Pensacola, FL 32514
Phone (850) 474-1001 Fax (850) 478-2671

Chain of Custody Record

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Lab PHL: Whitnrite, Cheyenne R
Client Contact: Ben Hodges
E-Mail: cheyenne.whitnrite@testamericainc.com
Company: Southern Company
Address: 241 Ralph McGill Blvd SE B10185
City: Atlanta
State, Zip: GA, 30388
Phone: GPC10624814
Email: JAbraham@southernco.com
Project Name: CCR - Scherer
Site: Ash Pond

Due Date Requested: TAT Requested (days):
PO #: GPC10624814
WC #:
Project #: 40007041
SSOW #:

Sample: Ben Hodges
Phone: 912-268-7457

Carrier Tracking No(s):
DOC No: 400-57303-24790.8
Page: Page 1 of 1
Job #:

Analysis Requested

Sample Identification	Sample Date	Sample Time	Sample Type (C-comp, G-grab)	Matrix (Water, Soil, Swill, Other)	Field Filtered Sample (Yes or No)	2400-1D9, 300-ORFM, 20D-chloride, Fluoride, Sulfate	8020-90, 10, 100, 1000, 10000, 100000, 1000000	9316, Ra220, 9320, Ra220Ra226Ra228, 93PC	Total Number of Containers	Special Instructions/Note:
SGWC-19	2/16/17	1156	G	Water	N	1	1	2	4	1 Extra Radium
SGWC-9	2/16/17	1408	G	Water	N	1	1	1	3	
SGWC-16	2/16/17	1010	G	Water	N	1	1	1	3	
FD-3(AP)	2/16/17	-	G	Water	N	1	1	1	3	
SGWC-22	2/16/17	1022	G	Water	N	1	1	1	3	
FB-3(AP)	2/16/17	1030	G	Water	N	1	1	1	3	
SGWC-21	2/16/17	1148	G	Water	N	1	1	1	3	
SGWC-20	2/16/17	1332	G	Water	N	1	1	1	3	
SGWC-18	2/16/17	1511	G	Water	N	1	1	1	3	
EB-3(AP)	2/16/17	0620	G	Water	N	1	1	1	3	

Preservation Codes:
 M- Hexane
 N- None
 O- Acetic Acid
 C- Zn Acetate
 D- Nitric Acid
 E- Nitric Acid
 F- MeOH
 G- Amchlor
 H- Ascorbic Acid
 I- Ice
 J- DI Water
 K- EDTA
 L- EDA
 other:

Possible Hazard Identification
 Non-Hazard
 Flammable
 Skin Irritant
 Poison B
 Unknown
 Radiological
 Deliverable Requested: I, II, III, IV, Other (specify)

Empty Kit Relinquished by: Ben Hodges
 Date: 2/17/17 10:00
 Company: C-NEW

Relinquished by: M. BATT
 Date: 2/17/17 11:05
 Company: C-NEW

Requisitioned by: M. BATT
 Date: 2/17/17 14:06
 Company: C-NEW

Custody Seal No.: 21707
 A Yes A No
 Collet Temperature(s) °C and Other Remarks: 2.7°C DR-7

Login Sample Receipt Checklist

Client: Southern Company

Job Number: 400-134140-2

SDG Number: Ash Pond

Login Number: 134140

List Number: 1

Creator: Siddoway, Benjamin

List Source: TestAmerica Pensacola

Question	Answer	Comment
Radioactivity wasn't checked or is \leq background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	N/A	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	0.0°C, 2.1°C, 1.8°C, 1.7°C, 2.7°C IR-7
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 <math><6\text{mm}</math> (1/4").	N/A	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	



Certification Summary

Client: Southern Company
Project/Site: CCR Plant Scherer

TestAmerica Job ID: 400-134140-2
SDG: Ash Pond

Laboratory: TestAmerica Pensacola

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

Authority	Program	EPA Region	Certification ID	Expiration Date
Alabama	State Program	4	40150	06-30-17
Arizona	State Program	9	AZ0710	01-11-18
Arkansas DEQ	State Program	6	88-0689	09-01-17
California	ELAP	9	2510	03-31-18
Florida	NELAP	4	E81010	06-30-17
Georgia	State Program	4	N/A	06-30-17
Illinois	NELAP	5	200041	10-09-17
Iowa	State Program	7	367	08-01-18
Kansas	NELAP	7	E-10253	10-31-17
Kentucky (UST)	State Program	4	53	06-30-17
Kentucky (WW)	State Program	4	98030	12-31-17
L-A-B	ISO/IEC 17025		L2471	02-22-20
Louisiana	NELAP	6	30976	06-30-17
Louisiana (DW)	NELAP Secondary AB	6	LA170005	12-31-17
Maryland	State Program	3	233	09-30-17
Massachusetts	State Program	1	M-FL094	06-30-17
Michigan	State Program	5	9912	05-06-17
New Jersey	NELAP	2	FL006	06-30-17
North Carolina (WW/SW)	State Program	4	314	12-31-17
Oklahoma	State Program	6	9810	08-31-17
Pennsylvania	NELAP	3	68-00467	01-31-18
Rhode Island	State Program	1	LAO00307	12-30-17
South Carolina	State Program	4	96026	06-30-17
Tennessee	State Program	4	TN02907	06-30-17
Texas	NELAP	6	T104704286-16-10	09-30-17
USDA	Federal		P330-16-00172	05-24-19
Virginia	NELAP	3	460166	06-14-17
Washington	State Program	10	C915	05-15-17
West Virginia DEP	State Program	3	136	06-30-17

Laboratory: TestAmerica St. Louis

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

Authority	Program	EPA Region	Certification ID	Expiration Date
Alaska	State Program	10	MO00054	06-30-17
California	State Program	9	2886	03-31-18 *
Connecticut	State Program	1	PH-0241	03-31-17 *
Florida	NELAP	4	E87689	06-30-17
Illinois	NELAP	5	200023	11-30-17
Iowa	State Program	7	373	02-01-18
Kansas	NELAP	7	E-10236	10-31-17
Kentucky (DW)	State Program	4	90125	12-31-17
L-A-B	DoD ELAP		L2305	04-06-19
Louisiana	NELAP	6	04080	06-30-17
Louisiana (DW)	NELAP	6	LA170011	12-31-17
Maryland	State Program	3	310	09-30-17
Missouri	State Program	7	780	06-30-17
Nevada	State Program	9	MO000542017-1	07-31-17
New Jersey	NELAP	2	MO002	06-30-17
New York	NELAP	2	11616	03-31-17 *

* Certification renewal pending - certification considered valid.

TestAmerica Pensacola

Certification Summary

Client: Southern Company
Project/Site: CCR Plant Scherer

TestAmerica Job ID: 400-134140-2
SDG: Ash Pond

Laboratory: TestAmerica St. Louis (Continued)

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

Authority	Program	EPA Region	Certification ID	Expiration Date
North Dakota	State Program	8	R207	06-30-17
NRC	NRC		24-24817-01	12-31-22
Oklahoma	State Program	6	9997	08-31-17
Pennsylvania	NELAP	3	68-00540	02-28-18
South Carolina	State Program	4	85002001	06-30-17
Texas	NELAP	6	T104704193-16-10	07-31-17
US Fish & Wildlife	Federal		LE058448-0	10-31-17
USDA	Federal		P330-17-0028	02-02-20
Utah	NELAP	8	MO000542016-8	07-31-17
Virginia	NELAP	3	460230	06-14-17
Washington	State Program	10	C592	08-30-17
West Virginia DEP	State Program	3	381	08-31-17 *

* Certification renewal pending - certification considered valid.

TestAmerica Pensacola

Product Name: Low-Flow System

Date: 2017-02-14 12:33:24

Project Information:

Operator Name AME
Company Name Golder
Project Name Scherer
Site Name Scherer
Latitude 0° 0' 0"
Longitude 0° 0' 0"
Sonde SN 457516
Turbidity Make/Model LaMotte

Pump Information:

Pump Model/Type QED ST1102PM
Tubing Type Bonded
Tubing Diameter .17 in
Tubing Length 44.60 ft

Pump placement from TOC 44.60 ft

Well Information:

Well ID SGWA-1
Well diameter 2 in
Well Total Depth 53.40 ft
Screen Length 10 ft
Depth to Water 40.06 ft

Pumping Information:

Final Pumping Rate 140 mL/min
Total System Volume 0.6840687 L
Calculated Sample Rate 300 sec
Stabilization Drawdown 1.56 in
Total Volume Pumped 3.5 L

Low-Flow Sampling Stabilization Summary

	Time	Elapsed	Temp C	pH	SpCond μ S/cm	Turb NTU	DTW ft	RDO mg/L	ORP mV
Stabilization			+/- 0.5	+/- 0.1	+/- 5%	+/- 10		+/- 10%	+/- 10
Last 5	12:10:53	300.02	18.39	5.50	36.23	1.06	40.16	2.57	98.14
Last 5	12:15:53	600.02	18.30	5.33	33.38	0.84	40.19	1.01	96.11
Last 5	12:20:53	900.02	18.26	5.29	32.67	0.38	40.19	0.51	94.89
Last 5	12:25:53	1200.02	18.34	5.29	32.70	0.61	40.19	0.37	91.71
Last 5	12:30:53	1500.02	18.35	5.29	32.94	0.32	40.19	0.31	87.85
Variance 0			-0.05	-0.03	-0.71			-0.51	-1.22
Variance 1			0.09	-0.00	0.03			-0.14	-3.18
Variance 2			0.00	0.00	0.24			-0.06	-3.85

Notes

Sampled @ 1231; extra rad bottle collected

Grab Samples

Product Name: Low-Flow System

Date: 2017-02-14 13:57:34

Project Information:

Operator Name AME
Company Name Golder
Project Name Scherer
Site Name Scherer
Latitude 0° 0' 0"
Longitude 0° 0' 0"
Sonde SN 457516
Turbidity Make/Model LaMotte

Pump Information:

Pump Model/Type QED ST1102PM
Tubing Type Bonded
Tubing Diameter .17 in
Tubing Length 91.05 ft

Pump placement from TOC 91.05 ft

Well Information:

Well ID SGWA-2
Well diameter 2 in
Well Total Depth 98.5 ft
Screen Length 10 ft
Depth to Water 39.16 ft

Pumping Information:

Final Pumping Rate 140 mL/min
Total System Volume 0.8913947 L
Calculated Sample Rate 300 sec
Stabilization Drawdown 14.28 in
Total Volume Pumped 4.2 L

Low-Flow Sampling Stabilization Summary

	Time	Elapsed	Temp C	pH	SpCond μ S/cm	Turb NTU	DTW ft	RDO mg/L	ORP mV
Stabilization			+/- 0.5	+/- 0.1	+/- 5%	+/- 10		+/- 10%	+/- 10
Last 5	13:34:00	600.02	19.24	6.75	114.29	1.22	40.20	4.03	81.61
Last 5	13:39:00	900.02	19.10	6.82	114.97	1.18	40.25	4.53	78.57
Last 5	13:44:00	1200.02	19.06	6.84	114.94	1.12	40.30	4.51	76.75
Last 5	13:49:00	1500.02	19.15	6.85	115.13	0.68	40.35	4.50	75.35
Last 5	13:54:00	1800.02	19.15	6.85	114.95	0.67	40.35	4.49	74.28
Variance 0			-0.05	0.03	-0.03			-0.01	-1.83
Variance 1			0.09	0.00	0.20			-0.01	-1.39
Variance 2			0.00	0.00	-0.19			-0.01	-1.08

Notes

Sampled @ 1356

Grab Samples

Product Name: Low-Flow System

Date: 2017-02-14 11:16:10

Project Information:

Operator Name BH
Company Name Golder
Project Name Scherer
Site Name Scherer
Latitude 0° 0' 0"
Longitude 0° 0' 0"
Sonde SN 440275
Turbidity Make/Model LaMotte

Pump Information:

Pump Model/Type QED ST1102PM
Tubing Type Bonded
Tubing Diameter .17 in
Tubing Length 44.7 ft

Pump placement from TOC 44.7 ft

Well Information:

Well ID SGWA-3
Well diameter 2 in
Well Total Depth 52.8 ft
Screen Length 10 ft
Depth to Water 32.83 ft

Pumping Information:

Final Pumping Rate 100 mL/min
Total System Volume 0.684515 L
Calculated Sample Rate 300 sec
Stabilization Drawdown 41.64 in
Total Volume Pumped 4.5 L

Low-Flow Sampling Stabilization Summary

	Time	Elapsed	Temp C	pH	SpCond μ S/cm	Turb NTU	DTW ft	RDO mg/L	ORP mV
Stabilization			+/- 0.5	+/- 0.1	+/- 5%	+/- 10		+/- 10%	+/- 10
Last 5	10:54:46	1500.54	17.41	5.53	70.23	0.56	35.63	1.21	69.08
Last 5	10:59:46	1800.54	17.52	5.56	70.49	0.65	35.84	1.24	67.26
Last 5	11:04:46	2100.54	17.67	5.55	70.50	0.61	36.05	1.21	66.68
Last 5	11:09:46	2400.54	17.77	5.52	70.50	0.67	36.17	1.21	66.82
Last 5	11:14:46	2700.54	18.26	5.57	70.11	0.53	36.30	1.21	64.85
Variance 0			0.16	-0.01	0.01			-0.03	-0.58
Variance 1			0.09	-0.03	0.00			-0.00	0.14
Variance 2			0.49	0.05	-0.40			-0.00	-1.96

Notes

Sampled at 1115

Grab Samples

Product Name: Low-Flow System

Date: 2017-02-14 11:47:44

Project Information:

Operator Name DT
Company Name Golder
Project Name Scherer
Site Name Scherer
Latitude 0° 0' 0"
Longitude 0° 0' 0"
Sonde SN 463068
Turbidity Make/Model LaMotte

Pump Information:

Pump Model/Type QED ST1102PM
Tubing Type Bonded
Tubing Diameter .17 in
Tubing Length 54.80 ft

Pump placement from TOC 54.80 ft

Well Information:

Well ID SGWA-4
Well diameter 2 in
Well Total Depth 63.2 ft
Screen Length 10 ft
Depth to Water 49.15 ft

Pumping Information:

Final Pumping Rate 100 mL/min
Total System Volume 0.7295956 L
Calculated Sample Rate 300 sec
Stabilization Drawdown 14.4 in
Total Volume Pumped 3 L

Low-Flow Sampling Stabilization Summary

	Time	Elapsed	Temp C	pH	SpCond μ S/cm	Turb NTU	DTW ft	RDO mg/L	ORP mV
Stabilization			+/- 0.5	+/- 0.1	+/- 5%	+/- 10		+/- 10%	+/- 10
Last 5	11:26:57	600.02	17.72	6.18	161.64	0.14	50.22	4.55	71.44
Last 5	11:31:57	900.02	17.51	6.13	160.38	0.11	50.28	4.25	72.91
Last 5	11:36:57	1200.00	17.59	6.15	160.23	0.15	50.32	4.03	70.11
Last 5	11:41:57	1500.01	18.03	6.17	161.10	0.21	50.35	3.93	65.70
Last 5	11:46:57	1800.00	18.26	6.18	161.47	0.26	50.35	3.85	64.11
Variance 0			0.08	0.02	-0.16			-0.23	-2.80
Variance 1			0.44	0.02	0.88			-0.10	-4.41
Variance 2			0.22	0.01	0.36			-0.07	-1.60

Notes

Grab Samples

Product Name: Low-Flow System

Date: 2017-02-14 09:51:52

Project Information:

Operator Name DT
Company Name Golder
Project Name Scherer
Site Name Scherer
Latitude 0° 0' 0"
Longitude 0° 0' 0"
Sonde SN 463068
Turbidity Make/Model LaMotte

Pump Information:

Pump Model/Type QED ST1102PM
Tubing Type Bonded
Tubing Diameter .17 in
Tubing Length 24.36 ft

Pump placement from TOC 24.36 ft

Well Information:

Well ID SWGA-5
Well diameter 2 in
Well Total Depth 33.1 ft
Screen Length 10 ft
Depth to Water 17.20 ft

Pumping Information:

Final Pumping Rate 150 mL/min
Total System Volume 0.593729 L
Calculated Sample Rate 300 sec
Stabilization Drawdown 5.4 in
Total Volume Pumped 3 L

Low-Flow Sampling Stabilization Summary

	Time	Elapsed	Temp C	pH	SpCond μ S/cm	Turb NTU	DTW ft	RDO mg/L	ORP mV
Stabilization			+/- 0.5	+/- 0.1	+/- 5%	+/- 10		+/- 10%	+/- 10
Last 5	09:34:45	300.09	15.03	5.43	50.69	0.37	17.63	3.28	76.79
Last 5	09:39:45	600.02	15.27	5.29	50.34	0.30	17.64	2.76	75.89
Last 5	09:44:45	900.02	15.57	5.23	50.36	0.35	17.65	2.89	75.90
Last 5	09:49:45	1200.02	15.98	5.29	49.93	0.30	17.65	2.73	72.38
Last 5									
Variance 0			0.23	-0.14	-0.34			-0.51	-0.90
Variance 1			0.30	-0.06	0.02			0.12	0.01
Variance 2			0.41	0.06	-0.43			-0.15	-3.52

Notes

Grab Samples

Product Name: Low-Flow System

Date: 2017-02-14 13:45:25

Project Information:

Operator Name BH
Company Name Golder
Project Name Scherer
Site Name Scherer
Latitude 0° 0' 0"
Longitude 0° 0' 0"
Sonde SN 440275
Turbidity Make/Model LaMotte

Pump Information:

Pump Model/Type QED ST1102PM
Tubing Type Bonded
Tubing Diameter .17 in
Tubing Length 19.21 ft

Pump placement from TOC 19.21 ft

Well Information:

Well ID SGWC-6
Well diameter 2 in
Well Total Depth 27.6 ft
Screen Length 10 ft
Depth to Water 15.08 ft

Pumping Information:

Final Pumping Rate 100 mL/min
Total System Volume 0.5707424 L
Calculated Sample Rate 300 sec
Stabilization Drawdown 21.12 in
Total Volume Pumped 3 L

Low-Flow Sampling Stabilization Summary

	Time	Elapsed	Temp C	pH	SpCond μ S/cm	Turb NTU	DTW ft	RDO mg/L	ORP mV
Stabilization			+/- 0.5	+/- 0.1	+/- 5%	+/- 10		+/- 10%	+/- 10
Last 5	13:23:51	600.02	19.42	6.33	108.98	0.69	16.26	2.17	64.45
Last 5	13:28:51	900.02	19.15	6.33	108.42	0.70	16.56	2.00	60.91
Last 5	13:33:52	1200.57	19.35	6.33	108.52	0.72	16.67	1.88	57.81
Last 5	13:38:52	1500.57	19.58	6.33	108.61	0.73	16.77	1.82	56.68
Last 5	13:43:52	1800.64	20.04	6.31	108.55	0.71	16.84	1.68	56.60
Variance 0			0.20	-0.00	0.11			-0.12	-3.10
Variance 1			0.23	-0.00	0.08			-0.06	-1.13
Variance 2			0.46	-0.02	-0.06			-0.13	-0.08

Notes

Sampled at 1345

Grab Samples

Product Name: Low-Flow System

Date: 2017-02-14 14:07:36

Project Information:

Operator Name DT
Company Name Golder
Project Name Scherer
Site Name Scherer
Latitude 0° 0' 0"
Longitude 0° 0' 0"
Sonde SN 463068
Turbidity Make/Model LaMotte

Pump Information:

Pump Model/Type QED ST1102PM
Tubing Type Bonded
Tubing Diameter .17 in
Tubing Length 29.75 ft

Pump placement from TOC 29.75 ft

Well Information:

Well ID SGWC-7
Well diameter 2 in
Well Total Depth 37.70 ft
Screen Length 10 ft
Depth to Water 14.30 ft

Pumping Information:

Final Pumping Rate 120 mL/min
Total System Volume 0.6177869 L
Calculated Sample Rate 300 sec
Stabilization Drawdown 1.44 in
Total Volume Pumped 3 L

Low-Flow Sampling Stabilization Summary

	Time	Elapsed	Temp C +/- 0.5	pH +/- 0.1	SpCond μ S/cm +/- 5%	Turb NTU +/- 10	DTW ft	RDO mg/L +/- 10%	ORP mV +/- 10
Stabilization									
Last 5	13:45:30	300.09	19.54	6.27	374.36	0.71	14.40	0.42	2.26
Last 5	13:50:30	600.02	19.41	6.29	364.45	0.49	14.43	0.41	-0.51
Last 5	13:55:30	900.02	19.83	6.32	360.57	0.83	14.44	0.44	-3.21
Last 5	14:00:30	1200.02	19.99	6.30	357.42	0.36	14.42	0.34	-3.83
Last 5	14:05:30	1500.00	20.21	6.30	350.56	0.56	14.42	0.33	-5.70
Variance 0			0.42	0.03	-3.88			0.03	-2.71
Variance 1			0.16	-0.02	-3.15			-0.10	-0.61
Variance 2			0.22	-0.01	-6.85			-0.01	-1.87

Notes

Grab Samples

Product Name: Low-Flow System

Date: 2017-02-14 15:03:16

Project Information:

Operator Name BH
Company Name Golder
Project Name Scherer
Site Name Scherer
Latitude 0° 0' 0"
Longitude 0° 0' 0"
Sonde SN 440275
Turbidity Make/Model LaMotte

Pump Information:

Pump Model/Type QED ST1102PM
Tubing Type Bonded
Tubing Diameter .17 in
Tubing Length 34.2 ft

Pump placement from TOC 34.2 ft

Well Information:

Well ID SGWC-8
Well diameter 2 in
Well Total Depth 42.6 ft
Screen Length 10 ft
Depth to Water 21.95 ft

Pumping Information:

Final Pumping Rate 150 mL/min
Total System Volume 0.6376491 L
Calculated Sample Rate 300 sec
Stabilization Drawdown 1.2 in
Total Volume Pumped 5.25 L

Low-Flow Sampling Stabilization Summary

	Time	Elapsed	Temp C	pH	SpCond μ S/cm	Turb NTU	DTW ft	RDO mg/L	ORP mV
Stabilization			+/- 0.5	+/- 0.1	+/- 5%	+/- 10		+/- 10%	+/- 10
Last 5	14:41:34	900.02	19.56	6.42	606.08	0.55	22.05	1.93	45.52
Last 5	14:46:34	1200.02	19.64	6.40	605.10	0.62	22.05	1.83	47.72
Last 5	14:51:34	1500.02	19.60	6.38	602.78	0.51	22.05	1.62	48.05
Last 5	14:56:34	1800.02	19.61	6.37	601.45	0.54	22.05	1.54	48.38
Last 5	15:01:34	2100.02	19.71	6.39	599.78	0.48	22.05	1.51	48.62
Variance 0			-0.04	-0.02	-2.31			-0.21	0.33
Variance 1			0.01	-0.01	-1.33			-0.08	0.33
Variance 2			0.11	0.02	-1.67			-0.02	0.24

Notes

Sampled at 1505

Grab Samples

Product Name: Low-Flow System

Date: 2017-02-16 14:10:32

Project Information:

Operator Name DT
Company Name Golder
Project Name Scherer
Site Name Scherer
Latitude 0° 0' 0"
Longitude 0° 0' 0"
Sonde SN 463068
Turbidity Make/Model LaMotte

Pump Information:

Pump Model/Type QED ST1102PM
Tubing Type Bonded
Tubing Diameter .17 in
Tubing Length 29.4 ft

Pump placement from TOC 29.4 ft

Well Information:

Well ID SGWC-9
Well diameter 2 in
Well Total Depth 37.8 ft
Screen Length 10 ft
Depth to Water 20.3 ft

Pumping Information:

Final Pumping Rate 120 mL/min
Total System Volume 0.6162246 L
Calculated Sample Rate 300 sec
Stabilization Drawdown 4.8 in
Total Volume Pumped 3.6 L

Low-Flow Sampling Stabilization Summary

	Time	Elapsed	Temp C	pH	SpCond μ S/cm	Turb NTU	DTW ft	RDO mg/L	ORP mV
Stabilization			+/- 0.5	+/- 0.1	+/- 5%	+/- 10		+/- 10%	+/- 10
Last 5	13:48:41	600.02	17.51	5.88	695.63	1.15	20.75	0.72	24.02
Last 5	13:53:41	900.02	17.74	5.92	696.16	0.82	20.77	0.48	22.63
Last 5	13:58:41	1200.02	17.97	5.95	693.73	0.54	20.75	0.35	21.38
Last 5	14:03:41	1500.02	18.17	5.94	689.50	0.46	20.70	0.40	20.87
Last 5	14:08:41	1800.02	18.48	5.95	686.68	0.57	20.70	0.48	19.70
Variance 0			0.23	0.02	-2.43			-0.13	-1.25
Variance 1			0.20	-0.00	-4.22			0.05	-0.50
Variance 2			0.31	0.01	-2.83			0.08	-1.18

Notes

Grab Samples

Product Name: Low-Flow System

Date: 2017-02-15 11:45:14

Project Information:

Operator Name BH
Company Name Golder
Project Name Scherer
Site Name Scherer
Latitude 0° 0' 0"
Longitude 0° 0' 0"
Sonde SN 440275
Turbidity Make/Model LaMotte

Pump Information:

Pump Model/Type QED ST1102PM
Tubing Type Bonded
Tubing Diameter .17 in
Tubing Length 24.2 ft

Pump placement from TOC 24.2 ft

Well Information:

Well ID SGWC-10
Well diameter 2 in
Well Total Depth 32.6 ft
Screen Length 10 ft
Depth to Water 16.33 ft

Pumping Information:

Final Pumping Rate 100 mL/min
Total System Volume 0.5930148 L
Calculated Sample Rate 300 sec
Stabilization Drawdown 15.84 in
Total Volume Pumped 3 L

Low-Flow Sampling Stabilization Summary

	Time	Elapsed	Temp C	pH	SpCond μ S/cm	Turb NTU	DTW ft	RDO mg/L	ORP mV
Stabilization			+/- 0.5	+/- 0.1	+/- 5%	+/- 10		+/- 10%	+/- 10
Last 5	11:24:25	600.02	17.50	5.26	77.99	5.01	17.35	0.73	62.54
Last 5	11:29:25	900.02	17.28	5.28	77.91	3.00	17.45	0.60	56.71
Last 5	11:34:25	1200.02	17.17	5.28	77.82	2.34	17.53	0.51	58.67
Last 5	11:39:25	1500.02	16.93	5.29	77.48	1.55	17.62	0.44	59.41
Last 5	11:44:25	1800.02	16.92	5.29	77.82	1.22	17.65	0.39	59.07
Variance 0			-0.11	0.00	-0.09			-0.09	1.96
Variance 1			-0.24	0.01	-0.33			-0.07	0.74
Variance 2			-0.01	0.01	0.34			-0.05	-0.34

Notes

Sampled at 1145

Grab Samples

Product Name: Low-Flow System

Date: 2017-02-15 11:52:41

Project Information:

Operator Name AME
Company Name Golder
Project Name Scherer
Site Name Scherer
Latitude 0° 0' 0"
Longitude 0° 0' 0"
Sonde SN 457516
Turbidity Make/Model LaMotte

Pump Information:

Pump Model/Type QED ST1102PM
Tubing Type Bonded
Tubing Diameter .17 in
Tubing Length 34.3 ft

Pump placement from TOC 34.3 ft

Well Information:

Well ID SGWC-11
Well diameter 2 in
Well Total Depth 42.7 ft
Screen Length 10 ft
Depth to Water 17.56 ft

Pumping Information:

Final Pumping Rate 120 mL/min
Total System Volume 0.6380954 L
Calculated Sample Rate 300 sec
Stabilization Drawdown 20.64 in
Total Volume Pumped 4.8 L

Low-Flow Sampling Stabilization Summary

	Time	Elapsed	Temp C	pH	SpCond μ S/cm	Turb NTU	DTW ft	RDO mg/L	ORP mV
Stabilization			+/- 0.5	+/- 0.1	+/- 5%	+/- 10		+/- 10%	+/- 10
Last 5	11:29:59	1200.02	18.39	5.59	95.89	1.37	19.41	0.29	27.03
Last 5	11:34:59	1500.02	18.03	5.57	93.29	0.49	19.33	0.26	24.92
Last 5	11:39:59	1800.02	17.72	5.56	91.40	0.46	19.29	0.28	23.33
Last 5	11:44:59	2100.10	17.57	5.56	89.96	0.39	19.24	0.28	22.41
Last 5	11:49:59	2400.04	17.59	5.54	88.67	0.27	19.28	0.29	21.75
Variance 0			-0.31	-0.01	-1.89			0.02	-1.59
Variance 1			-0.15	-0.01	-1.44			0.01	-0.92
Variance 2			0.02	-0.01	-1.29			0.00	-0.66

Notes

Sampled @ 1150

Grab Samples

Product Name: Low-Flow System

Date: 2017-02-15 14:04:19

Project Information:

Operator Name BH
Company Name Golder
Project Name Scherer
Site Name Scherer
Latitude 0° 0' 0"
Longitude 0° 0' 0"
Sonde SN 440275
Turbidity Make/Model LaMotte

Pump Information:

Pump Model/Type QED ST1102PM
Tubing Type Bonded
Tubing Diameter .17 in
Tubing Length 41.87 ft

Pump placement from TOC 41.87 ft

Well Information:

Well ID SGWC-12
Well diameter 2 in
Well Total Depth 50.2 ft
Screen Length 10 ft
Depth to Water 14.05 ft

Pumping Information:

Final Pumping Rate 100 mL/min
Total System Volume 0.6718835 L
Calculated Sample Rate 300 sec
Stabilization Drawdown 22.2 in
Total Volume Pumped 3 L

Low-Flow Sampling Stabilization Summary

	Time	Elapsed	Temp C	pH	SpCond μ S/cm	Turb NTU	DTW ft	RDO mg/L	ORP mV
Stabilization			+/- 0.5	+/- 0.1	+/- 5%	+/- 10		+/- 10%	+/- 10
Last 5	13:43:03	600.02	18.88	6.19	316.07	1.36	15.39	0.70	-37.32
Last 5	13:48:03	900.02	18.78	6.20	314.84	0.95	15.66	0.70	-34.23
Last 5	13:53:03	1200.02	18.77	6.20	315.05	1.04	15.80	0.54	-34.31
Last 5	13:58:03	1499.99	18.76	6.20	314.60	0.99	15.87	0.48	-32.88
Last 5	14:03:03	1799.99	19.06	6.21	313.82	1.15	15.90	0.56	-31.41
Variance 0			-0.01	-0.00	0.21			-0.16	-0.07
Variance 1			-0.01	0.00	-0.45			-0.06	1.43
Variance 2			0.30	0.01	-0.78			0.07	1.46

Notes

Sampled at 1405

Grab Samples

Product Name: Low-Flow System

Date: 2017-02-15 12:01:08

Project Information:

Operator Name DT
Company Name Golder
Project Name Scherer
Site Name Scherer
Latitude 0° 0' 0"
Longitude 0° 0' 0"
Sonde SN 463068
Turbidity Make/Model LaMotte

Pump Information:

Pump Model/Type QED ST1102PM
Tubing Type Bonded
Tubing Diameter .17 in
Tubing Length 29.00 ft

Pump placement from TOC 29.00 ft

Well Information:

Well ID SWGC-13
Well diameter 2 in
Well Total Depth 37.5 ft
Screen Length 10 ft
Depth to Water 3.57 ft

Pumping Information:

Final Pumping Rate 100 mL/min
Total System Volume 0.6144392 L
Calculated Sample Rate 300 sec
Stabilization Drawdown 8.16 in
Total Volume Pumped 3 L

Low-Flow Sampling Stabilization Summary

	Time	Elapsed	Temp C	pH	SpCond μ S/cm	Turb NTU	DTW ft	RDO mg/L	ORP mV
Stabilization			+/- 0.5	+/- 0.1	+/- 5%	+/- 10		+/- 10%	+/- 10
Last 5	11:39:43	600.02	16.29	5.62	254.00	5.93	4.26	0.64	83.28
Last 5	11:44:43	900.02	16.02	5.70	254.26	5.38	4.26	0.68	77.99
Last 5	11:49:43	1200.02	16.07	5.76	254.00	3.67	4.26	0.66	73.64
Last 5	11:54:44	1500.60	15.85	5.77	253.52	3.54	4.25	0.65	72.48
Last 5	11:59:44	1800.60	15.82	5.74	255.41	2.48	4.25	0.66	72.66
Variance 0			0.04	0.06	-0.26			-0.02	-4.35
Variance 1			-0.21	0.01	-0.48			-0.01	-1.16
Variance 2			-0.04	-0.02	1.89			0.01	0.18

Notes

Grab Samples

Product Name: Low-Flow System

Date: 2017-02-15 14:08:46

Project Information:

Operator Name DT
Company Name Golder
Project Name Scherer
Site Name Scherer
Latitude 0° 0' 0"
Longitude 0° 0' 0"
Sonde SN 463068
Turbidity Make/Model LaMotte

Pump Information:

Pump Model/Type QED ST1102PM
Tubing Type Bonded
Tubing Diameter .17 in
Tubing Length 30.24 ft

Pump placement from TOC 30.24 ft

Well Information:

Well ID SGWC-14
Well diameter 2 in
Well Total Depth 38.5 ft
Screen Length 10 ft
Depth to Water 10.07 ft

Pumping Information:

Final Pumping Rate 120 mL/min
Total System Volume 0.6199739 L
Calculated Sample Rate 300 sec
Stabilization Drawdown 0.36 in
Total Volume Pumped 3.6 L

Low-Flow Sampling Stabilization Summary

	Time	Elapsed	Temp C	pH	SpCond μ S/cm	Turb NTU	DTW ft	RDO mg/L	ORP mV
Stabilization			+/- 0.5	+/- 0.1	+/- 5%	+/- 10		+/- 10%	+/- 10
Last 5	13:47:33	600.02	17.54	5.56	479.40	5.28	10.10	0.53	85.57
Last 5	13:52:33	900.02	17.59	5.56	479.70	4.28	10.10	0.57	81.00
Last 5	13:57:33	1200.02	17.65	5.57	478.19	3.61	10.10	0.81	78.81
Last 5	14:02:33	1500.02	17.68	5.58	479.49	2.27	10.12	0.66	77.87
Last 5	14:07:33	1800.02	17.63	5.58	478.91	2.25	10.10	0.66	77.56
Variance 0			0.05	0.01	-1.51			0.24	-2.19
Variance 1			0.04	0.01	1.30			-0.15	-0.94
Variance 2			-0.05	-0.00	-0.57			0.00	-0.30

Notes

Grab Samples

Product Name: Low-Flow System

Date: 2017-02-15 16:02:38

Project Information:

Operator Name DT
Company Name Golder
Project Name Scherer
Site Name Scherer
Latitude 0° 0' 0"
Longitude 0° 0' 0"
Sonde SN 463068
Turbidity Make/Model LaMotte

Pump Information:

Pump Model/Type QED ST1102PM
Tubing Type Bonded
Tubing Diameter .17 in
Tubing Length 39.65 ft

Pump placement from TOC 39.65 ft

Well Information:

Well ID SGWC-15
Well diameter 2 in
Well Total Depth 48.2 ft
Screen Length 10 ft
Depth to Water 27.53 ft

Pumping Information:

Final Pumping Rate 150 mL/min
Total System Volume 0.6619747 L
Calculated Sample Rate 300 sec
Stabilization Drawdown 0.84 in
Total Volume Pumped 6.75 L

Low-Flow Sampling Stabilization Summary

	Time	Elapsed	Temp C	pH	SpCond μ S/cm	Turb NTU	DTW ft	RDO mg/L	ORP mV
Stabilization			+/- 0.5	+/- 0.1	+/- 5%	+/- 10		+/- 10%	+/- 10
Last 5	15:40:17	1500.02	18.09	4.51	488.69	7.35	27.60	1.58	205.77
Last 5	15:45:17	1800.02	18.08	4.52	488.29	6.12	27.60	1.54	213.48
Last 5	15:50:17	2100.02	18.12	4.50	488.14	5.61	27.55	1.53	227.48
Last 5	15:55:18	2400.38	18.08	4.51	488.34	5.42	27.60	1.52	236.53
Last 5	16:00:18	2700.38	18.08	4.51	488.21	4.76	27.60	1.51	245.16
Variance 0			0.04	-0.01	-0.15			-0.01	14.00
Variance 1			-0.04	0.01	0.20			-0.01	9.05
Variance 2			0.00	-0.00	-0.13			-0.01	8.63

Notes

Grab Samples

Product Name: Low-Flow System

Date: 2017-02-16 10:09:42

Project Information:

Operator Name DT
Company Name Golder
Project Name Scherer
Site Name Scherer
Latitude 0° 0' 0"
Longitude 0° 0' 0"
Sonde SN 463068
Turbidity Make/Model LaMotte

Pump Information:

Pump Model/Type QED ST1102PM
Tubing Type Bonded
Tubing Diameter .17 in
Tubing Length 34.62 ft

Pump placement from TOC 34.62 ft

Well Information:

Well ID SGWC-16
Well diameter 2 in
Well Total Depth 43.3 ft
Screen Length 10 ft
Depth to Water 22.38 ft

Pumping Information:

Final Pumping Rate 150 mL/min
Total System Volume 0.6395237 L
Calculated Sample Rate 300 sec
Stabilization Drawdown 1.32 in
Total Volume Pumped 6 L

Low-Flow Sampling Stabilization Summary

	Time	Elapsed	Temp C	pH	SpCond μ S/cm	Turb NTU	DTW ft	RDO mg/L	ORP mV
Stabilization			+/- 0.5	+/- 0.1	+/- 5%	+/- 10		+/- 10%	+/- 10
Last 5	09:47:26	1200.00	15.22	4.65	83.82	5.60	22.49	4.08	101.64
Last 5	09:52:26	1500.00	15.17	4.53	84.40	5.15	22.49	4.06	106.59
Last 5	09:57:26	1800.00	15.12	4.66	84.04	4.55	22.49	3.92	99.40
Last 5	10:02:26	2100.00	15.08	4.67	84.20	4.28	22.49	3.99	100.66
Last 5	10:07:26	2400.00	15.16	4.77	83.73	3.32	22.49	3.91	93.07
Variance 0			-0.05	0.13	-0.36			-0.14	-7.19
Variance 1			-0.03	0.01	0.16			0.07	1.26
Variance 2			0.08	0.10	-0.47			-0.09	-7.58

Notes

Sampled @ 1010/FD-3(AP)

Grab Samples

Product Name: Low-Flow System

Date: 2017-02-15 13:28:12

Project Information:

Operator Name AME
Company Name Golder
Project Name Scherer
Site Name Scherer
Latitude 0° 0' 0"
Longitude 0° 0' 0"
Sonde SN 457516
Turbidity Make/Model LaMotte

Pump Information:

Pump Model/Type QED ST1102PM
Tubing Type Bonded
Tubing Diameter .17 in
Tubing Length 19.24 ft

Pump placement from TOC 19.24 ft

Well Information:

Well ID SGWC-17
Well diameter 2 in
Well Total Depth 27.6 ft
Screen Length 10 ft
Depth to Water 0.4 ft

Pumping Information:

Final Pumping Rate 140 mL/min
Total System Volume 0.5708762 L
Calculated Sample Rate 300 sec
Stabilization Drawdown 1.8 in
Total Volume Pumped 3.5 L

Low-Flow Sampling Stabilization Summary

	Time	Elapsed	Temp C	pH	SpCond μ S/cm	Turb NTU	DTW ft	RDO mg/L	ORP mV
Stabilization			+/- 0.5	+/- 0.1	+/- 5%	+/- 10		+/- 10%	+/- 10
Last 5	13:00:59	300.02	17.09	6.27	487.57	1.76	0.55	0.88	8.89
Last 5	13:05:59	600.44	17.18	6.26	490.15	1.91	0.55	0.63	12.39
Last 5	13:10:59	900.44	17.10	6.25	493.40	1.78	0.55	0.36	14.45
Last 5	13:15:59	1200.44	17.14	6.25	494.37	2.32	0.55	0.26	16.30
Last 5	13:20:59	1500.44	17.01	6.25	494.25	2.53	0.55	0.20	17.54
Variance 0			-0.09	-0.00	3.25			-0.27	2.07
Variance 1			0.04	-0.01	0.98			-0.10	1.85
Variance 2			-0.13	0.00	-0.12			-0.06	1.24

Notes

Sampled @ 1324; FD-2(PA)

Grab Samples

Product Name: Low-Flow System

Date: 2017-02-16 15:12:56

Project Information:

Operator Name AME
Company Name Golder
Project Name Scherer
Site Name Scherer
Latitude 0° 0' 0"
Longitude 0° 0' 0"
Sonde SN 457516
Turbidity Make/Model LaMotte

Pump Information:

Pump Model/Type QED ST1102PM
Tubing Type Bonded
Tubing Diameter .17 in
Tubing Length 39.20 ft

Pump placement from TOC 39.20 ft

Well Information:

Well ID SGWC-18
Well diameter 2 in
Well Total Depth 47.60 ft
Screen Length 10 ft
Depth to Water 34.53 ft

Pumping Information:

Final Pumping Rate 100 mL/min
Total System Volume 0.6599662 L
Calculated Sample Rate 300 sec
Stabilization Drawdown 13.44 in
Total Volume Pumped 3.5 L

Low-Flow Sampling Stabilization Summary

	Time	Elapsed	Temp C	pH	SpCond μ S/cm	Turb NTU	DTW ft	RDO mg/L	ORP mV
Stabilization			+/- 0.5	+/- 0.1	+/- 5%	+/- 10		+/- 10%	+/- 10
Last 5	14:50:46	900.02	19.15	4.77	914.22	0.33	35.65	2.52	168.17
Last 5	14:55:46	1200.02	18.92	4.77	911.65	0.08	35.65	2.41	160.65
Last 5	15:00:46	1500.02	18.77	4.77	914.47	0.12	35.65	2.37	154.77
Last 5	15:05:46	1800.02	18.92	4.77	916.35	0.13	35.65	2.34	150.53
Last 5	15:10:47	2100.55	18.90	4.77	911.87	0.08	35.65	2.31	147.31
Variance 0			-0.15	0.00	2.82			-0.04	-5.88
Variance 1			0.15	-0.00	1.88			-0.03	-4.24
Variance 2			-0.02	-0.00	-4.48			-0.03	-3.22

Notes

Sampled @ 1511

Grab Samples

Product Name: Low-Flow System

Date: 2017-02-16 11:57:37

Project Information:

Operator Name DT
Company Name Golder
Project Name Scherer
Site Name Scherer
Latitude 0° 0' 0"
Longitude 0° 0' 0"
Sonde SN 463068
Turbidity Make/Model LaMotte

Pump Information:

Pump Model/Type QED ST1102PM
Tubing Type Bonded
Tubing Diameter .17 in
Tubing Length 29.0 ft

Pump placement from TOC 29.0 ft

Well Information:

Well ID SGWC-19
Well diameter 2 in
Well Total Depth 37.4 ft
Screen Length 10 ft
Depth to Water 15.20 ft

Pumping Information:

Final Pumping Rate 120 mL/min
Total System Volume 0.6144392 L
Calculated Sample Rate 300 sec
Stabilization Drawdown 4.8 in
Total Volume Pumped 3 L

Low-Flow Sampling Stabilization Summary

	Time	Elapsed	Temp C	pH	SpCond μ S/cm	Turb NTU	DTW ft	RDO mg/L	ORP mV
Stabilization			+/- 0.5	+/- 0.1	+/- 5%	+/- 10		+/- 10%	+/- 10
Last 5	11:36:44	300.02	16.11	5.34	467.63	3.91	15.60	2.33	96.94
Last 5	11:41:44	600.01	16.29	5.33	468.13	3.15	15.60	2.45	94.14
Last 5	11:46:44	900.00	16.33	5.32	468.30	1.99	15.61	2.32	92.30
Last 5	11:51:44	1200.00	16.38	5.31	468.33	1.67	15.60	2.30	90.81
Last 5	11:56:44	1500.00	16.40	5.32	468.31	1.36	15.60	2.27	87.80
Variance 0			0.04	-0.02	0.17			-0.13	-1.84
Variance 1			0.05	-0.01	0.03			-0.02	-1.50
Variance 2			0.02	0.01	-0.01			-0.03	-3.01

Notes

Grab Samples

Product Name: Low-Flow System

Date: 2017-02-16 13:33:47

Project Information:

Operator Name AME
Company Name Golder
Project Name Scherer
Site Name Scherer
Latitude 0° 0' 0"
Longitude 0° 0' 0"
Sonde SN 457516
Turbidity Make/Model LaMotte

Pump Information:

Pump Model/Type QED ST1102PM
Tubing Type Bonded
Tubing Diameter .17 in
Tubing Length 19.5 ft

Pump placement from TOC 19.5 ft

Well Information:

Well ID SGWC-20
Well diameter 2 in
Well Total Depth 27.9 ft
Screen Length 10 ft
Depth to Water 12.10 ft

Pumping Information:

Final Pumping Rate 140 mL/min
Total System Volume 0.5720367 L
Calculated Sample Rate 300 sec
Stabilization Drawdown 5.52 in
Total Volume Pumped 5.6 L

Low-Flow Sampling Stabilization Summary

	Time	Elapsed	Temp C	pH	SpCond μ S/cm	Turb NTU	DTW ft	RDO mg/L	ORP mV
Stabilization			+/- 0.5	+/- 0.1	+/- 5%	+/- 10		+/- 10%	+/- 10
Last 5	13:10:40	1200.02	19.01	4.28	504.98	0.05	12.61	0.90	208.79
Last 5	13:15:40	1500.02	18.93	4.28	509.47	0.12	12.60	0.86	210.97
Last 5	13:20:40	1800.02	18.97	4.28	513.19	0.14	12.58	0.81	213.59
Last 5	13:25:40	2100.27	19.06	4.28	516.40	0.21	12.56	0.78	217.42
Last 5	13:30:40	2400.27	19.01	4.29	520.11	0.12	12.56	0.73	216.94
Variance 0			0.03	-0.00	3.72			-0.06	2.63
Variance 1			0.09	0.00	3.21			-0.03	3.83
Variance 2			-0.05	0.00	3.72			-0.05	-0.48

Notes

Sampled @ 1332

Grab Samples

Product Name: Low-Flow System

Date: 2017-02-16 11:50:43

Project Information:

Operator Name AME
Company Name Golder
Project Name Scherer
Site Name Scherer
Latitude 0° 0' 0"
Longitude 0° 0' 0"
Sonde SN 457516
Turbidity Make/Model LaMotte

Pump Information:

Pump Model/Type QED ST1102PM
Tubing Type Bonded
Tubing Diameter .17 in
Tubing Length 19.39 ft

Pump placement from TOC 19.39 ft

Well Information:

Well ID SGWC-21
Well diameter 2 in
Well Total Depth 27.79 ft
Screen Length 10 ft
Depth to Water 0.65 ft

Pumping Information:

Final Pumping Rate 150 mL/min
Total System Volume 0.5715458 L
Calculated Sample Rate 300 sec
Stabilization Drawdown 1.2 in
Total Volume Pumped 4.5 L

Low-Flow Sampling Stabilization Summary

	Time	Elapsed	Temp C	pH	SpCond μ S/cm	Turb NTU	DTW ft	RDO mg/L	ORP mV
Stabilization			+/- 0.5	+/- 0.1	+/- 5%	+/- 10		+/- 10%	+/- 10
Last 5	11:27:32	600.03	16.11	6.05	386.53	3.60	0.75	0.47	78.20
Last 5	11:32:32	900.02	15.77	6.04	395.64	4.00	0.75	0.26	84.55
Last 5	11:37:32	1200.51	16.17	6.04	393.11	4.05	0.75	0.21	91.61
Last 5	11:42:32	1500.50	16.38	6.03	395.94	3.52	0.75	0.19	98.01
Last 5	11:47:32	1800.50	16.61	6.03	394.13	3.77	0.75	0.17	108.07
Variance 0			0.40	-0.00	-2.53			-0.04	7.06
Variance 1			0.22	-0.00	2.83			-0.02	6.40
Variance 2			0.23	-0.01	-1.81			-0.02	10.06

Notes

Sampled @ 1148

Grab Samples

Product Name: Low-Flow System

Date: 2017-02-16 10:25:50

Project Information:

Operator Name AME
Company Name Golder
Project Name Scherer
Site Name Scherer
Latitude 0° 0' 0"
Longitude 0° 0' 0"
Sonde SN 457516
Turbidity Make/Model LaMotte

Pump Information:

Pump Model/Type QED ST1102PM
Tubing Type Bonded
Tubing Diameter .17 in
Tubing Length 44.20 ft

Pump placement from TOC 44.20 ft

Well Information:

Well ID SGWC-22
Well diameter 2 in
Well Total Depth 52.6 ft
Screen Length 10 ft
Depth to Water 25.16 ft

Pumping Information:

Final Pumping Rate 120 mL/min
Total System Volume 0.6822833 L
Calculated Sample Rate 300 sec
Stabilization Drawdown 8.28 in
Total Volume Pumped 3 L

Low-Flow Sampling Stabilization Summary

	Time	Elapsed	Temp C	pH	SpCond μ S/cm	Turb NTU	DTW ft	RDO mg/L	ORP mV
Stabilization			+/- 0.5	+/- 0.1	+/- 5%	+/- 10		+/- 10%	+/- 10
Last 5	10:01:51	300.09	15.98	5.78	296.76	1.08	25.79	1.54	77.65
Last 5	10:06:51	600.03	16.34	5.71	298.78	0.99	25.81	0.60	74.21
Last 5	10:11:51	900.02	16.43	5.70	297.88	0.91	25.84	0.39	70.67
Last 5	10:16:51	1200.02	16.47	5.70	293.83	0.58	25.85	0.27	67.87
Last 5	10:21:51	1500.02	16.38	5.70	294.71	0.71	25.85	0.24	65.61
Variance 0			0.09	-0.01	-0.90			-0.21	-3.54
Variance 1			0.05	0.00	-4.05			-0.12	-2.80
Variance 2			-0.09	0.00	0.88			-0.03	-2.25

Notes

Sampled @ 1022; FB-3(AP) @ 1030

Grab Samples

Product Name: Low-Flow System

Date: 2017-02-15 15:35:57

Project Information:

Operator Name AME
Company Name Golder
Project Name Scherer
Site Name Scherer
Latitude 0° 0' 0"
Longitude 0° 0' 0"
Sonde SN 457516
Turbidity Make/Model LaMotte

Pump Information:

Pump Model/Type QED ST1102PM
Tubing Type Bonded
Tubing Diameter .17 in
Tubing Length 44.25 ft

Pump placement from TOC 44.25 ft

Well Information:

Well ID SGWC-23
Well diameter 2 in
Well Total Depth 52.6 ft
Screen Length 10 ft
Depth to Water 31.59 ft

Pumping Information:

Final Pumping Rate 130 mL/min
Total System Volume 0.6825064 L
Calculated Sample Rate 300 sec
Stabilization Drawdown 0.84 in
Total Volume Pumped 5.85 L

Low-Flow Sampling Stabilization Summary

	Time	Elapsed	Temp C	pH	SpCond μ S/cm	Turb NTU	DTW ft	RDO mg/L	ORP mV
Stabilization			+/- 0.5	+/- 0.1	+/- 5%	+/- 10		+/- 10%	+/- 10
Last 5	15:12:58	1500.96	18.42	6.03	411.13	0.07	31.66	1.14	61.05
Last 5	15:17:58	1800.96	18.52	6.04	413.19	0.10	31.66	1.08	61.59
Last 5	15:22:58	2100.96	18.59	6.04	415.03	0.21	31.66	1.02	62.14
Last 5	15:27:58	2400.96	18.64	6.04	416.21	0.14	31.66	0.98	62.68
Last 5	15:32:58	2700.96	18.53	6.04	417.64	0.05	31.66	0.96	62.82
Variance 0			0.07	0.00	1.83			-0.06	0.56
Variance 1			0.04	0.00	1.18			-0.04	0.53
Variance 2			-0.11	0.00	1.43			-0.02	0.14

Notes

Sampled @ 1533

Grab Samples

Product Name: Low-Flow System

Date: 2017-02-14 10:43:17

Project Information:

Operator Name AME
Company Name Golder
Project Name Scherer
Site Name Scherer
Latitude 0° 0' 0"
Longitude 0° 0' 0"
Sonde SN 457516
Turbidity Make/Model LaMotte

Pump Information:

Pump Model/Type QED ST1102PM
Tubing Type Bonded
Tubing Diameter .17 in
Tubing Length 34.80 ft

Pump placement from TOC 34.80 ft

Well Information:

Well ID SGWA-24
Well diameter 2 in
Well Total Depth 42.9 ft
Screen Length 10 ft
Depth to Water 13.77 ft

Pumping Information:

Final Pumping Rate 125 mL/min
Total System Volume 0.6403272 L
Calculated Sample Rate 300 sec
Stabilization Drawdown 2.76 in
Total Volume Pumped 10 L

Low-Flow Sampling Stabilization Summary

	Time	Elapsed	Temp C	pH	SpCond μ S/cm	Turb NTU	DTW ft	RDO mg/L	ORP mV
Stabilization			+/- 0.5	+/- 0.1	+/- 5%	+/- 10		+/- 10%	+/- 10
Last 5	10:20:00	3600.64	16.97	6.33	126.30	5.36	14.15	1.61	82.76
Last 5	10:25:00	3900.64	16.40	6.33	128.70	3.72	14.10	1.87	81.51
Last 5	10:30:00	4200.64	16.51	6.33	127.98	3.70	14.05	1.78	80.91
Last 5	10:35:00	4500.64	16.56	6.33	127.83	4.84	14.00	1.72	80.34
Last 5	10:40:00	4800.56	16.71	6.33	127.53	4.49	14.00	1.73	79.93
Variance 0			0.11	0.00	-0.72			-0.09	-0.60
Variance 1			0.05	-0.00	-0.15			-0.06	-0.57
Variance 2			0.15	-0.00	-0.30			0.01	-0.41

Notes

Sampled @ 1041

Grab Samples

Product Name: Low-Flow System

Date: 2017-02-14 15:12:26

Project Information:

Operator Name AME
Company Name Golder
Project Name Scherer
Site Name Scherer
Latitude 0° 0' 0"
Longitude 0° 0' 0"
Sonde SN 457516
Turbidity Make/Model LaMotte

Pump Information:

Pump Model/Type QED ST1102PM
Tubing Type Bonded
Tubing Diameter .17 in
Tubing Length 39.75 ft

Pump placement from TOC 39.75 ft

Well Information:

Well ID SGWA-25
Well diameter 2 in
Well Total Depth 48.0 ft
Screen Length 10 ft
Depth to Water 28.34 ft

Pumping Information:

Final Pumping Rate 130 mL/min
Total System Volume 0.6624211 L
Calculated Sample Rate 300 sec
Stabilization Drawdown 1.32 in
Total Volume Pumped 3.5 L

Low-Flow Sampling Stabilization Summary

	Time	Elapsed	Temp C	pH	SpCond μ S/cm	Turb NTU	DTW ft	RDO mg/L	ORP mV
Stabilization			+/- 0.5	+/- 0.1	+/- 5%	+/- 10		+/- 10%	+/- 10
Last 5	14:47:40	300.02	20.61	6.43	136.61	2.47	28.44	2.24	28.02
Last 5	14:52:41	601.02	19.83	6.38	140.98	1.69	28.45	0.99	13.57
Last 5	14:57:41	901.02	19.72	6.36	142.17	1.00	28.45	0.50	7.89
Last 5	15:02:41	1201.02	19.59	6.35	142.79	0.86	28.45	0.32	5.09
Last 5	15:07:44	1504.02	19.37	6.34	143.15	0.56	28.45	0.26	3.78
Variance 0			-0.11	-0.01	1.19			-0.48	-5.68
Variance 1			-0.13	-0.01	0.62			-0.19	-2.80
Variance 2			-0.22	-0.01	0.36			-0.06	-1.31

Notes

Sampled @ 1510

Grab Samples



APPENDIX A

ANALYTICAL RESULTS & FIELD DATA FORMS

(APRIL 2017)

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

TestAmerica Laboratories, Inc.

TestAmerica Pensacola

3355 McLemore Drive

Pensacola, FL 32514

Tel: (850)474-1001

TestAmerica Job ID: 400-136455-1

TestAmerica Sample Delivery Group: Ash Pond

Client Project/Site: CCR - Plant Scherer

For:

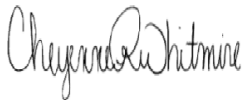
Southern Company

241 Ralph McGill Blvd SE

B10185

Atlanta, Georgia 30308

Attn: Joju Abraham



Authorized for release by:

4/30/2017 12:36:59 PM

Cheyenne Whitmire, Project Manager II

(850)471-6222

cheyenne.whitmire@testamericainc.com

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The test results in this report meet all 2003 NELAC and 2009 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.

1

2

3

4

5

6

7

8

9

10

11

12

13

14



Table of Contents

Cover Page	1
Table of Contents	2
Case Narrative	3
Detection Summary	4
Method Summary	14
Sample Summary	15
Client Sample Results	16
Definitions	50
Chronicle	51
QC Association	62
QC Sample Results	70
Chain of Custody	82
Receipt Checklists	86
Certification Summary	87

Case Narrative

Client: Southern Company
Project/Site: CCR - Plant Scherer

TestAmerica Job ID: 400-136455-1
SDG: Ash Pond

Job ID: 400-136455-1

Laboratory: TestAmerica Pensacola

Narrative

Job Narrative 400-136455-1

HPLC/IC

Method(s) 300.0: The following samples were diluted to bring the concentration of target analytes within the calibration range: SGWC-13 (400-136455-10), SGWC-14 (400-136455-15), SGWC-8 (400-136455-18), SGWC-15 (400-136455-22), SGWC-9 (400-136455-23), SGWC-17 (400-136455-26), SGWC-18 (400-136455-27), SGWC-19 (400-136455-28), SGWC-21 (400-136455-30), SGWC-22 (400-136455-31) and SGWC-23 (400-136455-32). Elevated reporting limits (RLs) are provided.

Metals

Method(s) 6020: The native sample and post digestion spike (PDS) associated with preparation batch 350105 and 350111 and analytical batch 400-350346 were performed at the same dilution. Due to the additional level of analyte present in the post spike, the concentration of Molybdenum in the PDS was above the instrument calibration range. The data has been reported accordingly.

Method(s) 6020: The following samples were diluted to bring the concentration of target analytes within the calibration range: SGWC-18 (400-136455-27), SGWC-19 (400-136455-28) and SGWC-20 (400-136455-29). Elevated reporting limits (RLs) are provided.



Detection Summary

Client: Southern Company
Project/Site: CCR - Plant Scherer

TestAmerica Job ID: 400-136455-1
SDG: Ash Pond

Client Sample ID: SGWA-24

Lab Sample ID: 400-136455-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chloride	1.8		1.0	0.89	mg/L	1		300.0	Total/NA
Barium	0.021		0.0025	0.00049	mg/L	5		6020	Total Recoverable
Calcium	12		0.25	0.13	mg/L	5		6020	Total Recoverable
Chromium	0.0037		0.0025	0.0011	mg/L	5		6020	Total Recoverable
Total Dissolved Solids	120		5.0	3.4	mg/L	1		SM 2540C	Total/NA

Client Sample ID: SGWA-4

Lab Sample ID: 400-136455-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chloride	1.2		1.0	0.89	mg/L	1		300.0	Total/NA
Sulfate	1.0		1.0	0.70	mg/L	1		300.0	Total/NA
Arsenic	0.0011	J	0.0013	0.00046	mg/L	5		6020	Total Recoverable
Barium	0.053		0.0025	0.00049	mg/L	5		6020	Total Recoverable
Calcium	17		0.25	0.13	mg/L	5		6020	Total Recoverable
Chromium	0.0050		0.0025	0.0011	mg/L	5		6020	Total Recoverable
Molybdenum	0.0011	J	0.015	0.00085	mg/L	5		6020	Total Recoverable
Total Dissolved Solids	110		5.0	3.4	mg/L	1		SM 2540C	Total/NA

Client Sample ID: SGWA-5

Lab Sample ID: 400-136455-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chloride	1.7		1.0	0.89	mg/L	1		300.0	Total/NA
Barium	0.010		0.0025	0.00049	mg/L	5		6020	Total Recoverable
Cadmium	0.0011	J	0.0025	0.00034	mg/L	5		6020	Total Recoverable
Calcium	1.4		0.25	0.13	mg/L	5		6020	Total Recoverable
Total Dissolved Solids	78		5.0	3.4	mg/L	1		SM 2540C	Total/NA

Client Sample ID: EB-1(AP)

Lab Sample ID: 400-136455-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Arsenic	0.00047	J	0.0013	0.00046	mg/L	5		6020	Total Recoverable

Client Sample ID: SGWA-1

Lab Sample ID: 400-136455-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chloride	1.8		1.0	0.89	mg/L	1		300.0	Total/NA
Barium	0.046		0.0025	0.00049	mg/L	5		6020	Total Recoverable
Calcium	1.8		0.25	0.13	mg/L	5		6020	Total Recoverable
Cobalt	0.0098		0.0025	0.00040	mg/L	5		6020	Total Recoverable

This Detection Summary does not include radiochemical test results.

TestAmerica Pensacola

Detection Summary

Client: Southern Company
Project/Site: CCR - Plant Scherer

TestAmerica Job ID: 400-136455-1
SDG: Ash Pond

Client Sample ID: SGWA-1 (Continued)

Lab Sample ID: 400-136455-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Total Dissolved Solids	50		5.0	3.4	mg/L	1		SM 2540C	Total/NA

Client Sample ID: SGWA-2

Lab Sample ID: 400-136455-6

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chloride	1.3		1.0	0.89	mg/L	1		300.0	Total/NA
Barium	0.037		0.0025	0.00049	mg/L	5		6020	Total Recoverable
Calcium	10		0.25	0.13	mg/L	5		6020	Total Recoverable
Chromium	0.014		0.0025	0.0011	mg/L	5		6020	Total Recoverable
Total Dissolved Solids	120		5.0	3.4	mg/L	1		SM 2540C	Total/NA

Client Sample ID: FD-1(AP)

Lab Sample ID: 400-136455-7

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chloride	1.3		1.0	0.89	mg/L	1		300.0	Total/NA
Barium	0.037		0.0025	0.00049	mg/L	5		6020	Total Recoverable
Calcium	11		0.25	0.13	mg/L	5		6020	Total Recoverable
Chromium	0.014		0.0025	0.0011	mg/L	5		6020	Total Recoverable
Total Dissolved Solids	110		5.0	3.4	mg/L	1		SM 2540C	Total/NA

Client Sample ID: SGWA-3

Lab Sample ID: 400-136455-8

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chloride	2.5		1.0	0.89	mg/L	1		300.0	Total/NA
Sulfate	1.3		1.0	0.70	mg/L	1		300.0	Total/NA
Barium	0.033		0.0025	0.00049	mg/L	5		6020	Total Recoverable
Calcium	5.0		0.25	0.13	mg/L	5		6020	Total Recoverable
Chromium	0.0098		0.0025	0.0011	mg/L	5		6020	Total Recoverable
Total Dissolved Solids	64		5.0	3.4	mg/L	1		SM 2540C	Total/NA

Client Sample ID: SGWA-25

Lab Sample ID: 400-136455-9

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chloride	1.7		1.0	0.89	mg/L	1		300.0	Total/NA
Arsenic	0.00072	J	0.0013	0.00046	mg/L	5		6020	Total Recoverable
Barium	0.021		0.0025	0.00049	mg/L	5		6020	Total Recoverable
Calcium	11		0.25	0.13	mg/L	5		6020	Total Recoverable
Cobalt	0.015		0.0025	0.00040	mg/L	5		6020	Total Recoverable
Total Dissolved Solids	110		5.0	3.4	mg/L	1		SM 2540C	Total/NA

This Detection Summary does not include radiochemical test results.

TestAmerica Pensacola

Detection Summary

Client: Southern Company
Project/Site: CCR - Plant Scherer

TestAmerica Job ID: 400-136455-1
SDG: Ash Pond

Client Sample ID: SGWC-13

Lab Sample ID: 400-136455-10

Analyte	Result	Qualifier	RL	MDL	Unit	Dil	Fac	D	Method	Prep Type
Chloride	5.6		1.0	0.89	mg/L	1			300.0	Total/NA
Sulfate	70		5.0	3.5	mg/L	5			300.0	Total/NA
Arsenic	0.00047	J	0.0013	0.00046	mg/L	5			6020	Total Recoverable
Barium	0.029		0.0025	0.00049	mg/L	5			6020	Total Recoverable
Boron	0.47		0.050	0.021	mg/L	5			6020	Total Recoverable
Calcium	16		0.25	0.13	mg/L	5			6020	Total Recoverable
Cobalt	0.0078		0.0025	0.00040	mg/L	5			6020	Total Recoverable
Total Dissolved Solids	140		5.0	3.4	mg/L	1			SM 2540C	Total/NA

Client Sample ID: EB-2(AP)

Lab Sample ID: 400-136455-11

No Detections.

Client Sample ID: SGWC-12

Lab Sample ID: 400-136455-12

Analyte	Result	Qualifier	RL	MDL	Unit	Dil	Fac	D	Method	Prep Type
Chloride	8.6		1.0	0.89	mg/L	1			300.0	Total/NA
Fluoride	0.088	J	0.20	0.082	mg/L	1			300.0	Total/NA
Sulfate	30		1.0	0.70	mg/L	1			300.0	Total/NA
Arsenic	0.00046	J	0.0013	0.00046	mg/L	5			6020	Total Recoverable
Barium	0.037		0.0025	0.00049	mg/L	5			6020	Total Recoverable
Calcium	23		0.25	0.13	mg/L	5			6020	Total Recoverable
Cobalt	0.0039		0.0025	0.00040	mg/L	5			6020	Total Recoverable
Total Dissolved Solids	180		5.0	3.4	mg/L	1			SM 2540C	Total/NA

Client Sample ID: SGWC-11

Lab Sample ID: 400-136455-13

Analyte	Result	Qualifier	RL	MDL	Unit	Dil	Fac	D	Method	Prep Type
Chloride	7.5		1.0	0.89	mg/L	1			300.0	Total/NA
Sulfate	1.0		1.0	0.70	mg/L	1			300.0	Total/NA
Arsenic	0.00076	J	0.0013	0.00046	mg/L	5			6020	Total Recoverable
Barium	0.038		0.0025	0.00049	mg/L	5			6020	Total Recoverable
Boron	0.29		0.050	0.021	mg/L	5			6020	Total Recoverable
Calcium	1.9		0.25	0.13	mg/L	5			6020	Total Recoverable
Cobalt	0.028		0.0025	0.00040	mg/L	5			6020	Total Recoverable
Total Dissolved Solids	36		5.0	3.4	mg/L	1			SM 2540C	Total/NA

Client Sample ID: FD-2(AP)

Lab Sample ID: 400-136455-14

This Detection Summary does not include radiochemical test results.

TestAmerica Pensacola

Detection Summary

Client: Southern Company
Project/Site: CCR - Plant Scherer

TestAmerica Job ID: 400-136455-1
SDG: Ash Pond

Client Sample ID: FD-2(AP) (Continued)

Lab Sample ID: 400-136455-14

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chloride	7.5		1.0	0.89	mg/L	1		300.0	Total/NA
Sulfate	1.0		1.0	0.70	mg/L	1		300.0	Total/NA
Arsenic	0.00066	J	0.0013	0.00046	mg/L	5		6020	Total Recoverable
Barium	0.037		0.0025	0.00049	mg/L	5		6020	Total Recoverable
Boron	0.28		0.050	0.021	mg/L	5		6020	Total Recoverable
Calcium	1.8		0.25	0.13	mg/L	5		6020	Total Recoverable
Cobalt	0.027		0.0025	0.00040	mg/L	5		6020	Total Recoverable
Total Dissolved Solids	18		5.0	3.4	mg/L	1		SM 2540C	Total/NA

Client Sample ID: SGWC-14

Lab Sample ID: 400-136455-15

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chloride	10		1.0	0.89	mg/L	1		300.0	Total/NA
Sulfate	170		5.0	3.5	mg/L	5		300.0	Total/NA
Arsenic	0.00057	J	0.0013	0.00046	mg/L	5		6020	Total Recoverable
Barium	0.062		0.0025	0.00049	mg/L	5		6020	Total Recoverable
Boron	1.4		0.050	0.021	mg/L	5		6020	Total Recoverable
Calcium	39		0.25	0.13	mg/L	5		6020	Total Recoverable
Cobalt	0.017		0.0025	0.00040	mg/L	5		6020	Total Recoverable
Total Dissolved Solids	300		5.0	3.4	mg/L	1		SM 2540C	Total/NA

Client Sample ID: SGWC-10

Lab Sample ID: 400-136455-16

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chloride	8.5		1.0	0.89	mg/L	1		300.0	Total/NA
Sulfate	2.8		1.0	0.70	mg/L	1		300.0	Total/NA
Barium	0.028		0.0025	0.00049	mg/L	5		6020	Total Recoverable
Boron	0.052		0.050	0.021	mg/L	5		6020	Total Recoverable
Calcium	2.2		0.25	0.13	mg/L	5		6020	Total Recoverable
Cobalt	0.018		0.0025	0.00040	mg/L	5		6020	Total Recoverable
Total Dissolved Solids	18		5.0	3.4	mg/L	1		SM 2540C	Total/NA

Client Sample ID: FB-2(AP)

Lab Sample ID: 400-136455-17

No Detections.

Client Sample ID: SGWC-8

Lab Sample ID: 400-136455-18

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chloride	11		1.0	0.89	mg/L	1		300.0	Total/NA

This Detection Summary does not include radiochemical test results.

TestAmerica Pensacola

Detection Summary

Client: Southern Company
Project/Site: CCR - Plant Scherer

TestAmerica Job ID: 400-136455-1
SDG: Ash Pond

Client Sample ID: SGWC-8 (Continued)

Lab Sample ID: 400-136455-18

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Fluoride	0.41		0.20	0.082	mg/L	1		300.0	Total/NA
Sulfate	64		5.0	3.5	mg/L	5		300.0	Total/NA
Barium	0.18		0.0025	0.00049	mg/L	5		6020	Total Recoverable
Boron	0.068		0.050	0.021	mg/L	5		6020	Total Recoverable
Calcium	50		0.25	0.13	mg/L	5		6020	Total Recoverable
Chromium	0.0011	J	0.0025	0.0011	mg/L	5		6020	Total Recoverable
Total Dissolved Solids	370		5.0	3.4	mg/L	1		SM 2540C	Total/NA

Client Sample ID: FB-1(AP)

Lab Sample ID: 400-136455-19

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Arsenic	0.00064	J	0.0013	0.00046	mg/L	5		6020	Total Recoverable
Molybdenum	0.0042	J	0.015	0.00085	mg/L	5		6020	Total Recoverable
Selenium	0.0020		0.0013	0.00024	mg/L	5		6020	Total Recoverable

Client Sample ID: SGWC-6

Lab Sample ID: 400-136455-20

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chloride	1.6		1.0	0.89	mg/L	1		300.0	Total/NA
Fluoride	0.089	J	0.20	0.082	mg/L	1		300.0	Total/NA
Arsenic	0.00046	J	0.0013	0.00046	mg/L	5		6020	Total Recoverable
Barium	0.048		0.0025	0.00049	mg/L	5		6020	Total Recoverable
Calcium	6.7		0.25	0.13	mg/L	5		6020	Total Recoverable
Cobalt	0.0023	J	0.0025	0.00040	mg/L	5		6020	Total Recoverable
Selenium	0.00034	J	0.0013	0.00024	mg/L	5		6020	Total Recoverable
Total Dissolved Solids	64		5.0	3.4	mg/L	1		SM 2540C	Total/NA

Client Sample ID: SGWC-7

Lab Sample ID: 400-136455-21

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chloride	5.6		1.0	0.89	mg/L	1		300.0	Total/NA
Fluoride	0.20		0.20	0.082	mg/L	1		300.0	Total/NA
Sulfate	18		1.0	0.70	mg/L	1		300.0	Total/NA
Barium	0.30		0.0025	0.00049	mg/L	5		6020	Total Recoverable
Calcium	25		0.25	0.13	mg/L	5		6020	Total Recoverable
Cobalt	0.0062		0.0025	0.00040	mg/L	5		6020	Total Recoverable
Molybdenum	0.0033	J	0.015	0.00085	mg/L	5		6020	Total Recoverable
Arsenic - RA	0.00058	J	0.0013	0.00046	mg/L	5		6020	Total Recoverable

This Detection Summary does not include radiochemical test results.

TestAmerica Pensacola

Detection Summary

Client: Southern Company
Project/Site: CCR - Plant Scherer

TestAmerica Job ID: 400-136455-1
SDG: Ash Pond

Client Sample ID: SGWC-7 (Continued)

Lab Sample ID: 400-136455-21

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Boron - RA	0.039	J	0.050	0.021	mg/L	5		6020	Total Recoverable
Lithium - RA	0.0051		0.0050	0.0032	mg/L	5		6020	Total Recoverable
Total Dissolved Solids	200		5.0	3.4	mg/L	1		SM 2540C	Total/NA

Client Sample ID: SGWC-15

Lab Sample ID: 400-136455-22

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chloride	9.2		1.0	0.89	mg/L	1		300.0	Total/NA
Fluoride	0.11	J	0.20	0.082	mg/L	1		300.0	Total/NA
Sulfate	170		5.0	3.5	mg/L	5		300.0	Total/NA
Barium	0.038		0.0025	0.00049	mg/L	5		6020	Total Recoverable
Calcium	14		0.25	0.13	mg/L	5		6020	Total Recoverable
Chromium	0.035		0.0025	0.0011	mg/L	5		6020	Total Recoverable
Cobalt	0.28		0.0025	0.00040	mg/L	5		6020	Total Recoverable
Arsenic - RA	0.00090	J	0.0013	0.00046	mg/L	5		6020	Total Recoverable
Beryllium - RA	0.00035	J	0.0025	0.00034	mg/L	5		6020	Total Recoverable
Boron - RA	1.7		0.050	0.021	mg/L	5		6020	Total Recoverable
Thallium - RA	0.000095	J	0.00050	0.000085	mg/L	5		6020	Total Recoverable
Mercury	0.000072	J	0.00020	0.000070	mg/L	1		7470A	Total/NA
Total Dissolved Solids	280		5.0	3.4	mg/L	1		SM 2540C	Total/NA

Client Sample ID: SGWC-9

Lab Sample ID: 400-136455-23

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chloride	8.7		1.0	0.89	mg/L	1		300.0	Total/NA
Sulfate	280		10	7.0	mg/L	10		300.0	Total/NA
Barium	0.063		0.0025	0.00049	mg/L	5		6020	Total Recoverable
Calcium	56		0.25	0.13	mg/L	5		6020	Total Recoverable
Cobalt	0.014		0.0025	0.00040	mg/L	5		6020	Total Recoverable
Molybdenum	0.0010	J	0.015	0.00085	mg/L	5		6020	Total Recoverable
Arsenic - RA	0.00079	J	0.0013	0.00046	mg/L	5		6020	Total Recoverable
Boron - RA	1.7		0.050	0.021	mg/L	5		6020	Total Recoverable
Total Dissolved Solids	590		5.0	3.4	mg/L	1		SM 2540C	Total/NA

Client Sample ID: SGWC-16

Lab Sample ID: 400-136455-24

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chloride	7.5		1.0	0.89	mg/L	1		300.0	Total/NA

This Detection Summary does not include radiochemical test results.

TestAmerica Pensacola

Detection Summary

Client: Southern Company
Project/Site: CCR - Plant Scherer

TestAmerica Job ID: 400-136455-1
SDG: Ash Pond

Client Sample ID: SGWC-16 (Continued)

Lab Sample ID: 400-136455-24

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Sulfate	15		1.0	0.70	mg/L	1		300.0	Total/NA
Barium	0.019		0.0025	0.00049	mg/L	5		6020	Total Recoverable
Calcium	0.88		0.25	0.13	mg/L	5		6020	Total Recoverable
Chromium	0.0098		0.0025	0.0011	mg/L	5		6020	Total Recoverable
Cobalt	0.0034		0.0025	0.00040	mg/L	5		6020	Total Recoverable
Boron - RA	0.56		0.050	0.021	mg/L	5		6020	Total Recoverable
Total Dissolved Solids	76		5.0	3.4	mg/L	1		SM 2540C	Total/NA

Client Sample ID: FD-3(AP)

Lab Sample ID: 400-136455-25

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chloride	7.6		1.0	0.89	mg/L	1		300.0	Total/NA
Sulfate	15		1.0	0.70	mg/L	1		300.0	Total/NA
Barium	0.019		0.0025	0.00049	mg/L	5		6020	Total Recoverable
Calcium	0.84		0.25	0.13	mg/L	5		6020	Total Recoverable
Chromium	0.010		0.0025	0.0011	mg/L	5		6020	Total Recoverable
Cobalt	0.0034		0.0025	0.00040	mg/L	5		6020	Total Recoverable
Arsenic - RA	0.00051	J	0.0013	0.00046	mg/L	5		6020	Total Recoverable
Boron - RA	0.57		0.050	0.021	mg/L	5		6020	Total Recoverable
Total Dissolved Solids	40		5.0	3.4	mg/L	1		SM 2540C	Total/NA

Client Sample ID: SGWC-17

Lab Sample ID: 400-136455-26

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chloride	7.9		1.0	0.89	mg/L	1		300.0	Total/NA
Sulfate	140		5.0	3.5	mg/L	5		300.0	Total/NA
Barium	0.019		0.0025	0.00049	mg/L	5		6020	Total Recoverable
Calcium	45		0.25	0.13	mg/L	5		6020	Total Recoverable
Chromium	0.0047		0.0025	0.0011	mg/L	5		6020	Total Recoverable
Cobalt	0.00049	J	0.0025	0.00040	mg/L	5		6020	Total Recoverable
Arsenic - RA	0.00066	J	0.0013	0.00046	mg/L	5		6020	Total Recoverable
Boron - RA	0.34		0.050	0.021	mg/L	5		6020	Total Recoverable
Total Dissolved Solids	390		5.0	3.4	mg/L	1		SM 2540C	Total/NA

Client Sample ID: SGWC-18

Lab Sample ID: 400-136455-27

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chloride	8.9		1.0	0.89	mg/L	1		300.0	Total/NA

This Detection Summary does not include radiochemical test results.

TestAmerica Pensacola

Detection Summary

Client: Southern Company
Project/Site: CCR - Plant Scherer

TestAmerica Job ID: 400-136455-1
SDG: Ash Pond

Client Sample ID: SGWC-18 (Continued)

Lab Sample ID: 400-136455-27

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Sulfate	380		20	14	mg/L	20		300.0	Total/NA
Calcium	35		0.25	0.13	mg/L	5		6020	Total Recoverable
Chromium	0.0061		0.0025	0.0011	mg/L	5		6020	Total Recoverable
Cobalt	0.094		0.0025	0.00040	mg/L	5		6020	Total Recoverable
Boron - DL	3.8		0.25	0.11	mg/L	25		6020	Total Recoverable
Arsenic - RA	0.00058	J	0.0013	0.00046	mg/L	5		6020	Total Recoverable
Barium - RA	0.012		0.0025	0.00049	mg/L	5		6020	Total Recoverable
Selenium - RA	0.0049		0.0013	0.00024	mg/L	5		6020	Total Recoverable
Thallium - RA	0.00012	J	0.00050	0.000085	mg/L	5		6020	Total Recoverable
Total Dissolved Solids	640		5.0	3.4	mg/L	1		SM 2540C	Total/NA

Client Sample ID: SGWC-19

Lab Sample ID: 400-136455-28

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chloride	7.5		1.0	0.89	mg/L	1		300.0	Total/NA
Sulfate	190		5.0	3.5	mg/L	5		300.0	Total/NA
Calcium	39		0.25	0.13	mg/L	5		6020	Total Recoverable
Chromium	0.016		0.0025	0.0011	mg/L	5		6020	Total Recoverable
Boron - DL	1.9		0.25	0.11	mg/L	25		6020	Total Recoverable
Barium - RA	0.037		0.0025	0.00049	mg/L	5		6020	Total Recoverable
Total Dissolved Solids	350		5.0	3.4	mg/L	1		SM 2540C	Total/NA

Client Sample ID: SGWC-20

Lab Sample ID: 400-136455-29

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chloride	10		1.0	0.89	mg/L	1		300.0	Total/NA
Fluoride	0.20		0.20	0.082	mg/L	1		300.0	Total/NA
Sulfate	220		10	7.0	mg/L	10		300.0	Total/NA
Calcium	17		0.25	0.13	mg/L	5		6020	Total Recoverable
Cobalt	0.19		0.0025	0.00040	mg/L	5		6020	Total Recoverable
Boron - DL	2.0		0.25	0.11	mg/L	25		6020	Total Recoverable
Barium - RA	0.028		0.0025	0.00049	mg/L	5		6020	Total Recoverable
Beryllium - RA	0.00065	J	0.0025	0.00034	mg/L	5		6020	Total Recoverable
Lithium - RA	0.0040	J	0.0050	0.0032	mg/L	5		6020	Total Recoverable
Thallium - RA	0.00021	J	0.00050	0.000085	mg/L	5		6020	Total Recoverable
Total Dissolved Solids	380		5.0	3.4	mg/L	1		SM 2540C	Total/NA

This Detection Summary does not include radiochemical test results.

TestAmerica Pensacola

Detection Summary

Client: Southern Company
Project/Site: CCR - Plant Scherer

TestAmerica Job ID: 400-136455-1
SDG: Ash Pond

Client Sample ID: SGWC-21

Lab Sample ID: 400-136455-30

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chloride	7.4		1.0	0.89	mg/L	1		300.0	Total/NA
Sulfate	70		5.0	3.5	mg/L	5		300.0	Total/NA
Calcium	32		0.25	0.13	mg/L	5		6020	Total Recoverable
Barium - RA	0.088		0.0025	0.00049	mg/L	5		6020	Total Recoverable
Boron - RA	1.4		0.050	0.021	mg/L	5		6020	Total Recoverable
Total Dissolved Solids	300		5.0	3.4	mg/L	1		SM 2540C	Total/NA

Client Sample ID: SGWC-22

Lab Sample ID: 400-136455-31

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chloride	9.6		1.0	0.89	mg/L	1		300.0	Total/NA
Sulfate	79		5.0	3.5	mg/L	5		300.0	Total/NA
Calcium	27		0.25	0.13	mg/L	5		6020	Total Recoverable
Cobalt	0.0031		0.0025	0.00040	mg/L	5		6020	Total Recoverable
Arsenic - RA	0.00060	J	0.0013	0.00046	mg/L	5		6020	Total Recoverable
Barium - RA	0.091		0.0025	0.00049	mg/L	5		6020	Total Recoverable
Boron - RA	0.40		0.050	0.021	mg/L	5		6020	Total Recoverable
Total Dissolved Solids	220		5.0	3.4	mg/L	1		SM 2540C	Total/NA

Client Sample ID: SGWC-23

Lab Sample ID: 400-136455-32

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chloride	9.0		1.0	0.89	mg/L	1		300.0	Total/NA
Sulfate	100		5.0	3.5	mg/L	5		300.0	Total/NA
Calcium	31		0.25	0.13	mg/L	5		6020	Total Recoverable
Chromium	0.0014	J	0.0025	0.0011	mg/L	5		6020	Total Recoverable
Arsenic - RA	0.00061	J	0.0013	0.00046	mg/L	5		6020	Total Recoverable
Barium - RA	0.081		0.0025	0.00049	mg/L	5		6020	Total Recoverable
Boron - RA	0.54		0.050	0.021	mg/L	5		6020	Total Recoverable
Lithium - RA	0.0036	J	0.0050	0.0032	mg/L	5		6020	Total Recoverable
Total Dissolved Solids	300		5.0	3.4	mg/L	1		SM 2540C	Total/NA

Client Sample ID: FB-3(AP)

Lab Sample ID: 400-136455-33

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Boron - RA	0.024	J	0.050	0.021	mg/L	5		6020	Total Recoverable

This Detection Summary does not include radiochemical test results.

TestAmerica Pensacola

Detection Summary

Client: Southern Company
Project/Site: CCR - Plant Scherer

TestAmerica Job ID: 400-136455-1
SDG: Ash Pond

Client Sample ID: EB-3(AP)

Lab Sample ID: 400-136455-34

No Detections.

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

This Detection Summary does not include radiochemical test results.

TestAmerica Pensacola

Method Summary

Client: Southern Company
Project/Site: CCR - Plant Scherer

TestAmerica Job ID: 400-136455-1
SDG: Ash Pond

Method	Method Description	Protocol	Laboratory
300.0	Anions, Ion Chromatography	MCAWW	TAL PEN
6020	Metals (ICP/MS)	SW846	TAL PEN
7470A	Mercury (CVAA)	SW846	TAL PEN
SM 2540C	Solids, Total Dissolved (TDS)	SM	TAL PEN

Protocol References:

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:

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

Sample Summary

Client: Southern Company
Project/Site: CCR - Plant Scherer

TestAmerica Job ID: 400-136455-1
SDG: Ash Pond

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
400-136455-1	SGWA-24	Water	04/10/17 16:25	04/12/17 09:40
400-136455-2	SGWA-4	Water	04/11/17 16:25	04/13/17 09:01
400-136455-3	SGWA-5	Water	04/11/17 15:46	04/13/17 09:01
400-136455-4	EB-1(AP)	Water	04/11/17 17:00	04/13/17 09:01
400-136455-5	SGWA-1	Water	04/11/17 10:35	04/13/17 09:01
400-136455-6	SGWA-2	Water	04/11/17 11:50	04/13/17 09:01
400-136455-7	FD-1(AP)	Water	04/11/17 00:00	04/13/17 09:01
400-136455-8	SGWA-3	Water	04/11/17 15:15	04/13/17 09:01
400-136455-9	SGWA-25	Water	04/11/17 16:55	04/13/17 09:01
400-136455-10	SGWC-13	Water	04/12/17 14:00	04/14/17 08:44
400-136455-11	EB-2(AP)	Water	04/12/17 14:50	04/14/17 08:44
400-136455-12	SGWC-12	Water	04/12/17 11:30	04/14/17 08:44
400-136455-13	SGWC-11	Water	04/12/17 10:05	04/14/17 08:44
400-136455-14	FD-2(AP)	Water	04/12/17 00:00	04/14/17 08:44
400-136455-15	SGWC-14	Water	04/12/17 14:15	04/14/17 08:44
400-136455-16	SGWC-10	Water	04/12/17 11:10	04/14/17 08:44
400-136455-17	FB-2(AP)	Water	04/12/17 10:10	04/14/17 08:44
400-136455-18	SGWC-8	Water	04/12/17 09:15	04/14/17 08:44
400-136455-19	FB-1(AP)	Water	04/12/17 09:00	04/14/17 08:44
400-136455-20	SGWC-6	Water	04/12/17 10:01	04/14/17 08:44
400-136455-21	SGWC-7	Water	04/12/17 12:11	04/14/17 08:44
400-136455-22	SGWC-15	Water	04/12/17 15:11	04/14/17 08:44
400-136455-23	SGWC-9	Water	04/13/17 12:20	04/15/17 08:25
400-136455-24	SGWC-16	Water	04/13/17 09:40	04/15/17 08:25
400-136455-25	FD-3(AP)	Water	04/13/17 00:00	04/15/17 08:25
400-136455-26	SGWC-17	Water	04/13/17 11:30	04/15/17 08:25
400-136455-27	SGWC-18	Water	04/13/17 13:30	04/15/17 08:25
400-136455-28	SGWC-19	Water	04/13/17 13:40	04/15/17 08:25
400-136455-29	SGWC-20	Water	04/13/17 11:35	04/15/17 08:25
400-136455-30	SGWC-21	Water	04/13/17 09:58	04/15/17 08:25
400-136455-31	SGWC-22	Water	04/13/17 10:25	04/15/17 08:25
400-136455-32	SGWC-23	Water	04/13/17 09:10	04/15/17 08:25
400-136455-33	FB-3(AP)	Water	04/13/17 09:00	04/15/17 08:25
400-136455-34	EB-3(AP)	Water	04/13/17 14:00	04/15/17 08:25

Client Sample Results

Client: Southern Company
Project/Site: CCR - Plant Scherer

TestAmerica Job ID: 400-136455-1
SDG: Ash Pond

Client Sample ID: SGWA-24

Date Collected: 04/10/17 16:25

Date Received: 04/12/17 09:40

Lab Sample ID: 400-136455-1

Matrix: Water

Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	1.8		1.0	0.89	mg/L			04/18/17 22:50	1
Fluoride	<0.082		0.20	0.082	mg/L			04/18/17 22:50	1
Sulfate	<0.70		1.0	0.70	mg/L			04/18/17 22:50	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0010		0.0025	0.0010	mg/L		04/13/17 15:40	04/14/17 14:24	5
Arsenic	<0.00046		0.0013	0.00046	mg/L		04/13/17 15:40	04/14/17 14:24	5
Barium	0.021		0.0025	0.00049	mg/L		04/13/17 15:40	04/14/17 14:24	5
Beryllium	<0.00034		0.0025	0.00034	mg/L		04/13/17 15:40	04/14/17 14:24	5
Boron	<0.021		0.050	0.021	mg/L		04/13/17 15:40	04/14/17 14:24	5
Cadmium	<0.00034		0.0025	0.00034	mg/L		04/13/17 15:40	04/14/17 14:24	5
Calcium	12		0.25	0.13	mg/L		04/13/17 15:40	04/14/17 14:24	5
Chromium	0.0037		0.0025	0.0011	mg/L		04/13/17 15:40	04/14/17 14:24	5
Cobalt	<0.00040		0.0025	0.00040	mg/L		04/13/17 15:40	04/14/17 14:24	5
Lead	<0.00035		0.0013	0.00035	mg/L		04/13/17 15:40	04/14/17 14:24	5
Lithium	<0.0032		0.0050	0.0032	mg/L		04/13/17 15:40	04/14/17 14:24	5
Molybdenum	<0.00085		0.015	0.00085	mg/L		04/13/17 15:40	04/14/17 14:24	5
Selenium	<0.00024		0.0013	0.00024	mg/L		04/13/17 15:40	04/14/17 14:24	5
Thallium	<0.000085		0.00050	0.000085	mg/L		04/13/17 15:40	04/14/17 14:24	5

Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.000070		0.00020	0.000070	mg/L		04/24/17 16:40	04/27/17 10:49	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	120		5.0	3.4	mg/L			04/15/17 16:01	1

Client Sample Results

Client: Southern Company
Project/Site: CCR - Plant Scherer

TestAmerica Job ID: 400-136455-1
SDG: Ash Pond

Client Sample ID: SGWA-4

Date Collected: 04/11/17 16:25

Date Received: 04/13/17 09:01

Lab Sample ID: 400-136455-2

Matrix: Water

Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	1.2		1.0	0.89	mg/L			04/18/17 23:59	1
Fluoride	<0.082		0.20	0.082	mg/L			04/18/17 23:59	1
Sulfate	1.0		1.0	0.70	mg/L			04/18/17 23:59	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0010		0.0025	0.0010	mg/L		04/17/17 16:04	04/18/17 14:52	5
Arsenic	0.0011	J	0.0013	0.00046	mg/L		04/17/17 16:04	04/18/17 14:52	5
Barium	0.053		0.0025	0.00049	mg/L		04/17/17 16:04	04/18/17 14:52	5
Beryllium	<0.00034		0.0025	0.00034	mg/L		04/17/17 16:04	04/18/17 14:52	5
Boron	<0.021		0.050	0.021	mg/L		04/17/17 16:04	04/18/17 14:52	5
Cadmium	<0.00034		0.0025	0.00034	mg/L		04/17/17 16:04	04/18/17 14:52	5
Calcium	17		0.25	0.13	mg/L		04/17/17 16:04	04/18/17 14:52	5
Chromium	0.0050		0.0025	0.0011	mg/L		04/17/17 16:04	04/18/17 14:52	5
Cobalt	<0.00040		0.0025	0.00040	mg/L		04/17/17 16:04	04/18/17 14:52	5
Lead	<0.00035		0.0013	0.00035	mg/L		04/17/17 16:04	04/18/17 14:52	5
Lithium	<0.0032		0.0050	0.0032	mg/L		04/17/17 16:04	04/18/17 14:52	5
Molybdenum	0.0011	J	0.015	0.00085	mg/L		04/17/17 16:04	04/18/17 14:52	5
Selenium	<0.00024		0.0013	0.00024	mg/L		04/17/17 16:04	04/18/17 14:52	5
Thallium	<0.000085		0.00050	0.000085	mg/L		04/17/17 16:04	04/18/17 14:52	5

Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.000070		0.00020	0.000070	mg/L		04/24/17 16:40	04/27/17 10:56	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	110		5.0	3.4	mg/L			04/15/17 16:01	1

Client Sample Results

Client: Southern Company
Project/Site: CCR - Plant Scherer

TestAmerica Job ID: 400-136455-1
SDG: Ash Pond

Client Sample ID: SGWA-5

Date Collected: 04/11/17 15:46

Date Received: 04/13/17 09:01

Lab Sample ID: 400-136455-3

Matrix: Water

Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	1.7		1.0	0.89	mg/L			04/19/17 00:22	1
Fluoride	<0.082		0.20	0.082	mg/L			04/19/17 00:22	1
Sulfate	<0.70		1.0	0.70	mg/L			04/19/17 00:22	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0010		0.0025	0.0010	mg/L		04/17/17 16:04	04/18/17 15:14	5
Arsenic	<0.00046		0.0013	0.00046	mg/L		04/17/17 16:04	04/18/17 15:14	5
Barium	0.010		0.0025	0.00049	mg/L		04/17/17 16:04	04/18/17 15:14	5
Beryllium	<0.00034		0.0025	0.00034	mg/L		04/17/17 16:04	04/18/17 15:14	5
Boron	<0.021		0.050	0.021	mg/L		04/17/17 16:04	04/18/17 15:14	5
Cadmium	0.0011	J	0.0025	0.00034	mg/L		04/17/17 16:04	04/18/17 15:14	5
Calcium	1.4		0.25	0.13	mg/L		04/17/17 16:04	04/18/17 15:14	5
Chromium	<0.0011		0.0025	0.0011	mg/L		04/17/17 16:04	04/18/17 15:14	5
Cobalt	<0.00040		0.0025	0.00040	mg/L		04/17/17 16:04	04/18/17 15:14	5
Lead	<0.00035		0.0013	0.00035	mg/L		04/17/17 16:04	04/18/17 15:14	5
Lithium	<0.0032		0.0050	0.0032	mg/L		04/17/17 16:04	04/18/17 15:14	5
Molybdenum	<0.00085		0.015	0.00085	mg/L		04/17/17 16:04	04/18/17 15:14	5
Selenium	<0.00024		0.0013	0.00024	mg/L		04/17/17 16:04	04/18/17 15:14	5
Thallium	<0.000085		0.00050	0.000085	mg/L		04/17/17 16:04	04/18/17 15:14	5

Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.000070		0.00020	0.000070	mg/L		04/24/17 16:40	04/27/17 10:58	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	78		5.0	3.4	mg/L			04/15/17 16:01	1

Client Sample Results

Client: Southern Company
Project/Site: CCR - Plant Scherer

TestAmerica Job ID: 400-136455-1
SDG: Ash Pond

Client Sample ID: EB-1(AP)

Date Collected: 04/11/17 17:00

Date Received: 04/13/17 09:01

Lab Sample ID: 400-136455-4

Matrix: Water

Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<0.89		1.0	0.89	mg/L			04/19/17 00:44	1
Fluoride	<0.082		0.20	0.082	mg/L			04/19/17 00:44	1
Sulfate	<0.70		1.0	0.70	mg/L			04/19/17 00:44	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0010		0.0025	0.0010	mg/L		04/17/17 16:04	04/18/17 15:19	5
Arsenic	0.00047	J	0.0013	0.00046	mg/L		04/17/17 16:04	04/18/17 15:19	5
Barium	<0.00049		0.0025	0.00049	mg/L		04/17/17 16:04	04/18/17 15:19	5
Beryllium	<0.00034		0.0025	0.00034	mg/L		04/17/17 16:04	04/18/17 15:19	5
Boron	<0.021		0.050	0.021	mg/L		04/17/17 16:04	04/18/17 15:19	5
Cadmium	<0.00034		0.0025	0.00034	mg/L		04/17/17 16:04	04/18/17 15:19	5
Calcium	<0.13		0.25	0.13	mg/L		04/17/17 16:04	04/18/17 15:19	5
Chromium	<0.0011		0.0025	0.0011	mg/L		04/17/17 16:04	04/18/17 15:19	5
Cobalt	<0.00040		0.0025	0.00040	mg/L		04/17/17 16:04	04/18/17 15:19	5
Lead	<0.00035		0.0013	0.00035	mg/L		04/17/17 16:04	04/18/17 15:19	5
Lithium	<0.0032		0.0050	0.0032	mg/L		04/17/17 16:04	04/18/17 15:19	5
Molybdenum	<0.00085		0.015	0.00085	mg/L		04/17/17 16:04	04/18/17 15:19	5
Selenium	<0.00024		0.0013	0.00024	mg/L		04/17/17 16:04	04/18/17 15:19	5
Thallium	<0.000085		0.00050	0.000085	mg/L		04/17/17 16:04	04/18/17 15:19	5

Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.000070		0.00020	0.000070	mg/L		04/24/17 16:40	04/27/17 11:00	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	<3.4		5.0	3.4	mg/L			04/15/17 16:01	1

Client Sample Results

Client: Southern Company
Project/Site: CCR - Plant Scherer

TestAmerica Job ID: 400-136455-1
SDG: Ash Pond

Client Sample ID: SGWA-1
Date Collected: 04/11/17 10:35
Date Received: 04/13/17 09:01

Lab Sample ID: 400-136455-5
Matrix: Water

Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	1.8		1.0	0.89	mg/L			04/19/17 01:07	1
Fluoride	<0.082		0.20	0.082	mg/L			04/19/17 01:07	1
Sulfate	<0.70		1.0	0.70	mg/L			04/19/17 01:07	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0010		0.0025	0.0010	mg/L		04/17/17 16:04	04/18/17 15:23	5
Arsenic	<0.00046		0.0013	0.00046	mg/L		04/17/17 16:04	04/18/17 15:23	5
Barium	0.046		0.0025	0.00049	mg/L		04/17/17 16:04	04/18/17 15:23	5
Beryllium	<0.00034		0.0025	0.00034	mg/L		04/17/17 16:04	04/18/17 15:23	5
Boron	<0.021		0.050	0.021	mg/L		04/17/17 16:04	04/18/17 15:23	5
Cadmium	<0.00034		0.0025	0.00034	mg/L		04/17/17 16:04	04/18/17 15:23	5
Calcium	1.8		0.25	0.13	mg/L		04/17/17 16:04	04/18/17 15:23	5
Chromium	<0.0011		0.0025	0.0011	mg/L		04/17/17 16:04	04/18/17 15:23	5
Cobalt	0.0098		0.0025	0.00040	mg/L		04/17/17 16:04	04/18/17 15:23	5
Lead	<0.00035		0.0013	0.00035	mg/L		04/17/17 16:04	04/18/17 15:23	5
Lithium	<0.0032		0.0050	0.0032	mg/L		04/17/17 16:04	04/18/17 15:23	5
Molybdenum	<0.00085		0.015	0.00085	mg/L		04/17/17 16:04	04/18/17 15:23	5
Selenium	<0.00024		0.0013	0.00024	mg/L		04/17/17 16:04	04/18/17 15:23	5
Thallium	<0.000085		0.00050	0.000085	mg/L		04/17/17 16:04	04/18/17 15:23	5

Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.000070		0.00020	0.000070	mg/L		04/24/17 16:40	04/27/17 11:01	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	50		5.0	3.4	mg/L			04/15/17 16:01	1

Client Sample Results

Client: Southern Company
Project/Site: CCR - Plant Scherer

TestAmerica Job ID: 400-136455-1
SDG: Ash Pond

Client Sample ID: SGWA-2

Date Collected: 04/11/17 11:50

Date Received: 04/13/17 09:01

Lab Sample ID: 400-136455-6

Matrix: Water

Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	1.3		1.0	0.89	mg/L			04/19/17 01:30	1
Fluoride	<0.082		0.20	0.082	mg/L			04/19/17 01:30	1
Sulfate	<0.70		1.0	0.70	mg/L			04/19/17 01:30	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0010		0.0025	0.0010	mg/L		04/17/17 16:04	04/18/17 15:28	5
Arsenic	<0.00046		0.0013	0.00046	mg/L		04/17/17 16:04	04/18/17 15:28	5
Barium	0.037		0.0025	0.00049	mg/L		04/17/17 16:04	04/18/17 15:28	5
Beryllium	<0.00034		0.0025	0.00034	mg/L		04/17/17 16:04	04/18/17 15:28	5
Boron	<0.021		0.050	0.021	mg/L		04/17/17 16:04	04/18/17 15:28	5
Cadmium	<0.00034		0.0025	0.00034	mg/L		04/17/17 16:04	04/18/17 15:28	5
Calcium	10		0.25	0.13	mg/L		04/17/17 16:04	04/18/17 15:28	5
Chromium	0.014		0.0025	0.0011	mg/L		04/17/17 16:04	04/18/17 15:28	5
Cobalt	<0.00040		0.0025	0.00040	mg/L		04/17/17 16:04	04/18/17 15:28	5
Lead	<0.00035		0.0013	0.00035	mg/L		04/17/17 16:04	04/18/17 15:28	5
Lithium	<0.0032		0.0050	0.0032	mg/L		04/17/17 16:04	04/18/17 15:28	5
Molybdenum	<0.00085		0.015	0.00085	mg/L		04/17/17 16:04	04/18/17 15:28	5
Selenium	<0.00024		0.0013	0.00024	mg/L		04/17/17 16:04	04/18/17 15:28	5
Thallium	<0.000085		0.00050	0.000085	mg/L		04/17/17 16:04	04/18/17 15:28	5

Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.000070		0.00020	0.000070	mg/L		04/24/17 16:40	04/27/17 11:03	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	120		5.0	3.4	mg/L			04/15/17 16:01	1

Client Sample Results

Client: Southern Company
Project/Site: CCR - Plant Scherer

TestAmerica Job ID: 400-136455-1
SDG: Ash Pond

Client Sample ID: FD-1(AP)

Date Collected: 04/11/17 00:00

Date Received: 04/13/17 09:01

Lab Sample ID: 400-136455-7

Matrix: Water

Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	1.3		1.0	0.89	mg/L			04/19/17 01:53	1
Fluoride	<0.082		0.20	0.082	mg/L			04/19/17 01:53	1
Sulfate	<0.70		1.0	0.70	mg/L			04/19/17 01:53	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0010		0.0025	0.0010	mg/L		04/17/17 16:04	04/18/17 15:32	5
Arsenic	<0.00046		0.0013	0.00046	mg/L		04/17/17 16:04	04/18/17 15:32	5
Barium	0.037		0.0025	0.00049	mg/L		04/17/17 16:04	04/18/17 15:32	5
Beryllium	<0.00034		0.0025	0.00034	mg/L		04/17/17 16:04	04/18/17 15:32	5
Boron	<0.021		0.050	0.021	mg/L		04/17/17 16:04	04/18/17 15:32	5
Cadmium	<0.00034		0.0025	0.00034	mg/L		04/17/17 16:04	04/18/17 15:32	5
Calcium	11		0.25	0.13	mg/L		04/17/17 16:04	04/18/17 15:32	5
Chromium	0.014		0.0025	0.0011	mg/L		04/17/17 16:04	04/18/17 15:32	5
Cobalt	<0.00040		0.0025	0.00040	mg/L		04/17/17 16:04	04/18/17 15:32	5
Lead	<0.00035		0.0013	0.00035	mg/L		04/17/17 16:04	04/18/17 15:32	5
Lithium	<0.0032		0.0050	0.0032	mg/L		04/17/17 16:04	04/18/17 15:32	5
Molybdenum	<0.00085		0.015	0.00085	mg/L		04/17/17 16:04	04/18/17 15:32	5
Selenium	<0.00024		0.0013	0.00024	mg/L		04/17/17 16:04	04/18/17 15:32	5
Thallium	<0.000085		0.00050	0.000085	mg/L		04/17/17 16:04	04/18/17 15:32	5

Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.000070		0.00020	0.000070	mg/L		04/24/17 16:40	04/27/17 11:05	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	110		5.0	3.4	mg/L			04/15/17 16:01	1

Client Sample Results

Client: Southern Company
Project/Site: CCR - Plant Scherer

TestAmerica Job ID: 400-136455-1
SDG: Ash Pond

Client Sample ID: SGWA-3

Date Collected: 04/11/17 15:15

Date Received: 04/13/17 09:01

Lab Sample ID: 400-136455-8

Matrix: Water

Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	2.5		1.0	0.89	mg/L			04/19/17 02:16	1
Fluoride	<0.082		0.20	0.082	mg/L			04/19/17 02:16	1
Sulfate	1.3		1.0	0.70	mg/L			04/19/17 02:16	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0010		0.0025	0.0010	mg/L		04/17/17 16:04	04/18/17 15:37	5
Arsenic	<0.00046		0.0013	0.00046	mg/L		04/17/17 16:04	04/18/17 15:37	5
Barium	0.033		0.0025	0.00049	mg/L		04/17/17 16:04	04/18/17 15:37	5
Beryllium	<0.00034		0.0025	0.00034	mg/L		04/17/17 16:04	04/18/17 15:37	5
Boron	<0.021		0.050	0.021	mg/L		04/17/17 16:04	04/18/17 15:37	5
Cadmium	<0.00034		0.0025	0.00034	mg/L		04/17/17 16:04	04/18/17 15:37	5
Calcium	5.0		0.25	0.13	mg/L		04/17/17 16:04	04/18/17 15:37	5
Chromium	0.0098		0.0025	0.0011	mg/L		04/17/17 16:04	04/18/17 15:37	5
Cobalt	<0.00040		0.0025	0.00040	mg/L		04/17/17 16:04	04/18/17 15:37	5
Lead	<0.00035		0.0013	0.00035	mg/L		04/17/17 16:04	04/18/17 15:37	5
Lithium	<0.0032		0.0050	0.0032	mg/L		04/17/17 16:04	04/18/17 15:37	5
Molybdenum	<0.00085		0.015	0.00085	mg/L		04/17/17 16:04	04/18/17 15:37	5
Selenium	<0.00024		0.0013	0.00024	mg/L		04/17/17 16:04	04/18/17 15:37	5
Thallium	<0.000085		0.00050	0.000085	mg/L		04/17/17 16:04	04/18/17 15:37	5

Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.000070		0.00020	0.000070	mg/L		04/24/17 16:40	04/27/17 12:06	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	64		5.0	3.4	mg/L			04/15/17 16:01	1

Client Sample Results

Client: Southern Company
Project/Site: CCR - Plant Scherer

TestAmerica Job ID: 400-136455-1
SDG: Ash Pond

Client Sample ID: SGWA-25

Date Collected: 04/11/17 16:55

Date Received: 04/13/17 09:01

Lab Sample ID: 400-136455-9

Matrix: Water

Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	1.7		1.0	0.89	mg/L			04/19/17 12:15	1
Fluoride	<0.082		0.20	0.082	mg/L			04/19/17 12:15	1
Sulfate	<0.70		1.0	0.70	mg/L			04/19/17 12:15	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0010		0.0025	0.0010	mg/L		04/17/17 16:04	04/18/17 15:41	5
Arsenic	0.00072	J	0.0013	0.00046	mg/L		04/17/17 16:04	04/18/17 15:41	5
Barium	0.021		0.0025	0.00049	mg/L		04/17/17 16:04	04/18/17 15:41	5
Beryllium	<0.00034		0.0025	0.00034	mg/L		04/17/17 16:04	04/18/17 15:41	5
Boron	<0.021		0.050	0.021	mg/L		04/17/17 16:04	04/18/17 15:41	5
Cadmium	<0.00034		0.0025	0.00034	mg/L		04/17/17 16:04	04/18/17 15:41	5
Calcium	11		0.25	0.13	mg/L		04/17/17 16:04	04/18/17 15:41	5
Chromium	<0.0011		0.0025	0.0011	mg/L		04/17/17 16:04	04/18/17 15:41	5
Cobalt	0.015		0.0025	0.00040	mg/L		04/17/17 16:04	04/18/17 15:41	5
Lead	<0.00035		0.0013	0.00035	mg/L		04/17/17 16:04	04/18/17 15:41	5
Lithium	<0.0032		0.0050	0.0032	mg/L		04/17/17 16:04	04/18/17 15:41	5
Molybdenum	<0.00085		0.015	0.00085	mg/L		04/17/17 16:04	04/18/17 15:41	5
Selenium	<0.00024		0.0013	0.00024	mg/L		04/17/17 16:04	04/18/17 15:41	5
Thallium	<0.000085		0.00050	0.000085	mg/L		04/17/17 16:04	04/18/17 15:41	5

Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.000070		0.00020	0.000070	mg/L		04/24/17 16:40	04/27/17 12:08	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	110		5.0	3.4	mg/L			04/15/17 16:01	1

Client Sample Results

Client: Southern Company
Project/Site: CCR - Plant Scherer

TestAmerica Job ID: 400-136455-1
SDG: Ash Pond

Client Sample ID: SGWC-13

Lab Sample ID: 400-136455-10

Date Collected: 04/12/17 14:00

Matrix: Water

Date Received: 04/14/17 08:44

Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	5.6		1.0	0.89	mg/L			04/19/17 13:24	1
Fluoride	<0.082		0.20	0.082	mg/L			04/19/17 13:24	1
Sulfate	70		5.0	3.5	mg/L			04/20/17 16:20	5

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0010		0.0025	0.0010	mg/L		04/17/17 16:04	04/18/17 15:46	5
Arsenic	0.00047	J	0.0013	0.00046	mg/L		04/17/17 16:04	04/18/17 15:46	5
Barium	0.029		0.0025	0.00049	mg/L		04/17/17 16:04	04/18/17 15:46	5
Beryllium	<0.00034		0.0025	0.00034	mg/L		04/17/17 16:04	04/18/17 15:46	5
Boron	0.47		0.050	0.021	mg/L		04/17/17 16:04	04/18/17 15:46	5
Cadmium	<0.00034		0.0025	0.00034	mg/L		04/17/17 16:04	04/18/17 15:46	5
Calcium	16		0.25	0.13	mg/L		04/17/17 16:04	04/18/17 15:46	5
Chromium	<0.0011		0.0025	0.0011	mg/L		04/17/17 16:04	04/18/17 15:46	5
Cobalt	0.0078		0.0025	0.00040	mg/L		04/17/17 16:04	04/18/17 15:46	5
Lead	<0.00035		0.0013	0.00035	mg/L		04/17/17 16:04	04/18/17 15:46	5
Lithium	<0.0032		0.0050	0.0032	mg/L		04/17/17 16:04	04/18/17 15:46	5
Molybdenum	<0.00085		0.015	0.00085	mg/L		04/17/17 16:04	04/18/17 15:46	5
Selenium	<0.00024		0.0013	0.00024	mg/L		04/17/17 16:04	04/18/17 15:46	5
Thallium	<0.000085		0.00050	0.000085	mg/L		04/17/17 16:04	04/18/17 15:46	5

Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.000070		0.00020	0.000070	mg/L		04/24/17 16:40	04/27/17 12:10	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	140		5.0	3.4	mg/L			04/17/17 13:26	1

Client Sample Results

Client: Southern Company
Project/Site: CCR - Plant Scherer

TestAmerica Job ID: 400-136455-1
SDG: Ash Pond

Client Sample ID: EB-2(AP)

Date Collected: 04/12/17 14:50

Date Received: 04/14/17 08:44

Lab Sample ID: 400-136455-11

Matrix: Water

Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<0.89		1.0	0.89	mg/L			04/19/17 13:47	1
Fluoride	<0.082		0.20	0.082	mg/L			04/19/17 13:47	1
Sulfate	<0.70		1.0	0.70	mg/L			04/19/17 13:47	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0010		0.0025	0.0010	mg/L		04/17/17 16:04	04/18/17 15:50	5
Arsenic	<0.00046		0.0013	0.00046	mg/L		04/17/17 16:04	04/18/17 15:50	5
Barium	<0.00049		0.0025	0.00049	mg/L		04/17/17 16:04	04/18/17 15:50	5
Beryllium	<0.00034		0.0025	0.00034	mg/L		04/17/17 16:04	04/18/17 15:50	5
Boron	<0.021		0.050	0.021	mg/L		04/17/17 16:04	04/18/17 15:50	5
Cadmium	<0.00034		0.0025	0.00034	mg/L		04/17/17 16:04	04/18/17 15:50	5
Calcium	<0.13		0.25	0.13	mg/L		04/17/17 16:04	04/18/17 15:50	5
Chromium	<0.0011		0.0025	0.0011	mg/L		04/17/17 16:04	04/18/17 15:50	5
Cobalt	<0.00040		0.0025	0.00040	mg/L		04/17/17 16:04	04/18/17 15:50	5
Lead	<0.00035		0.0013	0.00035	mg/L		04/17/17 16:04	04/18/17 15:50	5
Lithium	<0.0032		0.0050	0.0032	mg/L		04/17/17 16:04	04/18/17 15:50	5
Molybdenum	<0.00085		0.015	0.00085	mg/L		04/17/17 16:04	04/18/17 15:50	5
Selenium	<0.00024		0.0013	0.00024	mg/L		04/17/17 16:04	04/18/17 15:50	5
Thallium	<0.000085		0.00050	0.000085	mg/L		04/17/17 16:04	04/18/17 15:50	5

Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.000070		0.00020	0.000070	mg/L		04/24/17 16:40	04/27/17 12:11	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	<3.4		5.0	3.4	mg/L			04/17/17 13:26	1

Client Sample Results

Client: Southern Company
Project/Site: CCR - Plant Scherer

TestAmerica Job ID: 400-136455-1
SDG: Ash Pond

Client Sample ID: SGWC-12

Lab Sample ID: 400-136455-12

Date Collected: 04/12/17 11:30

Matrix: Water

Date Received: 04/14/17 08:44

Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	8.6		1.0	0.89	mg/L			04/19/17 14:57	1
Fluoride	0.088	J	0.20	0.082	mg/L			04/19/17 14:57	1
Sulfate	30		1.0	0.70	mg/L			04/19/17 14:57	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0010		0.0025	0.0010	mg/L		04/17/17 16:04	04/18/17 15:55	5
Arsenic	0.00046	J	0.0013	0.00046	mg/L		04/17/17 16:04	04/18/17 15:55	5
Barium	0.037		0.0025	0.00049	mg/L		04/17/17 16:04	04/18/17 15:55	5
Beryllium	<0.00034		0.0025	0.00034	mg/L		04/17/17 16:04	04/18/17 15:55	5
Boron	<0.021		0.050	0.021	mg/L		04/17/17 16:04	04/18/17 15:55	5
Cadmium	<0.00034		0.0025	0.00034	mg/L		04/17/17 16:04	04/18/17 15:55	5
Calcium	23		0.25	0.13	mg/L		04/17/17 16:04	04/18/17 15:55	5
Chromium	<0.0011		0.0025	0.0011	mg/L		04/17/17 16:04	04/18/17 15:55	5
Cobalt	0.0039		0.0025	0.00040	mg/L		04/17/17 16:04	04/18/17 15:55	5
Lead	<0.00035		0.0013	0.00035	mg/L		04/17/17 16:04	04/18/17 15:55	5
Lithium	<0.0032		0.0050	0.0032	mg/L		04/17/17 16:04	04/18/17 15:55	5
Molybdenum	<0.00085		0.015	0.00085	mg/L		04/17/17 16:04	04/18/17 15:55	5
Selenium	<0.00024		0.0013	0.00024	mg/L		04/17/17 16:04	04/18/17 15:55	5
Thallium	<0.000085		0.00050	0.000085	mg/L		04/17/17 16:04	04/18/17 15:55	5

Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.000070		0.00020	0.000070	mg/L		04/24/17 16:40	04/27/17 12:13	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	180		5.0	3.4	mg/L			04/17/17 13:26	1

Client Sample Results

Client: Southern Company
Project/Site: CCR - Plant Scherer

TestAmerica Job ID: 400-136455-1
SDG: Ash Pond

Client Sample ID: SGWC-11

Lab Sample ID: 400-136455-13

Date Collected: 04/12/17 10:05

Matrix: Water

Date Received: 04/14/17 08:44

Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	7.5		1.0	0.89	mg/L			04/19/17 15:20	1
Fluoride	<0.082		0.20	0.082	mg/L			04/19/17 15:20	1
Sulfate	1.0		1.0	0.70	mg/L			04/19/17 15:20	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0010		0.0025	0.0010	mg/L		04/17/17 16:04	04/18/17 16:17	5
Arsenic	0.00076	J	0.0013	0.00046	mg/L		04/17/17 16:04	04/18/17 16:17	5
Barium	0.038		0.0025	0.00049	mg/L		04/17/17 16:04	04/18/17 16:17	5
Beryllium	<0.00034		0.0025	0.00034	mg/L		04/17/17 16:04	04/18/17 16:17	5
Boron	0.29		0.050	0.021	mg/L		04/17/17 16:04	04/18/17 16:17	5
Cadmium	<0.00034		0.0025	0.00034	mg/L		04/17/17 16:04	04/18/17 16:17	5
Calcium	1.9		0.25	0.13	mg/L		04/17/17 16:04	04/18/17 16:17	5
Chromium	<0.0011		0.0025	0.0011	mg/L		04/17/17 16:04	04/18/17 16:17	5
Cobalt	0.028		0.0025	0.00040	mg/L		04/17/17 16:04	04/18/17 16:17	5
Lead	<0.00035		0.0013	0.00035	mg/L		04/17/17 16:04	04/18/17 16:17	5
Lithium	<0.0032		0.0050	0.0032	mg/L		04/17/17 16:04	04/18/17 16:17	5
Molybdenum	<0.00085		0.015	0.00085	mg/L		04/17/17 16:04	04/18/17 16:17	5
Selenium	<0.00024		0.0013	0.00024	mg/L		04/17/17 16:04	04/18/17 16:17	5
Thallium	<0.000085		0.00050	0.000085	mg/L		04/17/17 16:04	04/18/17 16:17	5

Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.000070		0.00020	0.000070	mg/L		04/24/17 16:40	04/27/17 12:15	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	36		5.0	3.4	mg/L			04/17/17 13:26	1

Client Sample Results

Client: Southern Company
Project/Site: CCR - Plant Scherer

TestAmerica Job ID: 400-136455-1
SDG: Ash Pond

Client Sample ID: FD-2(AP)

Date Collected: 04/12/17 00:00

Date Received: 04/14/17 08:44

Lab Sample ID: 400-136455-14

Matrix: Water

Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	7.5		1.0	0.89	mg/L			04/19/17 16:28	1
Fluoride	<0.082		0.20	0.082	mg/L			04/19/17 16:28	1
Sulfate	1.0		1.0	0.70	mg/L			04/19/17 16:28	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0010		0.0025	0.0010	mg/L		04/17/17 16:04	04/18/17 16:22	5
Arsenic	0.00066	J	0.0013	0.00046	mg/L		04/17/17 16:04	04/18/17 16:22	5
Barium	0.037		0.0025	0.00049	mg/L		04/17/17 16:04	04/18/17 16:22	5
Beryllium	<0.00034		0.0025	0.00034	mg/L		04/17/17 16:04	04/18/17 16:22	5
Boron	0.28		0.050	0.021	mg/L		04/17/17 16:04	04/18/17 16:22	5
Cadmium	<0.00034		0.0025	0.00034	mg/L		04/17/17 16:04	04/18/17 16:22	5
Calcium	1.8		0.25	0.13	mg/L		04/17/17 16:04	04/18/17 16:22	5
Chromium	<0.0011		0.0025	0.0011	mg/L		04/17/17 16:04	04/18/17 16:22	5
Cobalt	0.027		0.0025	0.00040	mg/L		04/17/17 16:04	04/18/17 16:22	5
Lead	<0.00035		0.0013	0.00035	mg/L		04/17/17 16:04	04/18/17 16:22	5
Lithium	<0.0032		0.0050	0.0032	mg/L		04/17/17 16:04	04/18/17 16:22	5
Molybdenum	<0.00085		0.015	0.00085	mg/L		04/17/17 16:04	04/18/17 16:22	5
Selenium	<0.00024		0.0013	0.00024	mg/L		04/17/17 16:04	04/18/17 16:22	5
Thallium	<0.000085		0.00050	0.000085	mg/L		04/17/17 16:04	04/18/17 16:22	5

Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.000070		0.00020	0.000070	mg/L		04/24/17 16:40	04/27/17 12:17	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	18		5.0	3.4	mg/L			04/17/17 13:26	1

Client Sample Results

Client: Southern Company
Project/Site: CCR - Plant Scherer

TestAmerica Job ID: 400-136455-1
SDG: Ash Pond

Client Sample ID: SGWC-14

Date Collected: 04/12/17 14:15

Date Received: 04/14/17 08:44

Lab Sample ID: 400-136455-15

Matrix: Water

Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	10		1.0	0.89	mg/L			04/19/17 16:51	1
Fluoride	<0.082		0.20	0.082	mg/L			04/19/17 16:51	1
Sulfate	170		5.0	3.5	mg/L			04/20/17 17:29	5

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0010		0.0025	0.0010	mg/L		04/17/17 16:04	04/18/17 16:26	5
Arsenic	0.00057	J	0.0013	0.00046	mg/L		04/17/17 16:04	04/18/17 16:26	5
Barium	0.062		0.0025	0.00049	mg/L		04/17/17 16:04	04/18/17 16:26	5
Beryllium	<0.00034		0.0025	0.00034	mg/L		04/17/17 16:04	04/18/17 16:26	5
Boron	1.4		0.050	0.021	mg/L		04/17/17 16:04	04/18/17 16:26	5
Cadmium	<0.00034		0.0025	0.00034	mg/L		04/17/17 16:04	04/18/17 16:26	5
Calcium	39		0.25	0.13	mg/L		04/17/17 16:04	04/18/17 16:26	5
Chromium	<0.0011		0.0025	0.0011	mg/L		04/17/17 16:04	04/18/17 16:26	5
Cobalt	0.017		0.0025	0.00040	mg/L		04/17/17 16:04	04/18/17 16:26	5
Lead	<0.00035		0.0013	0.00035	mg/L		04/17/17 16:04	04/18/17 16:26	5
Lithium	<0.0032		0.0050	0.0032	mg/L		04/17/17 16:04	04/18/17 16:26	5
Molybdenum	<0.00085		0.015	0.00085	mg/L		04/17/17 16:04	04/18/17 16:26	5
Selenium	<0.00024		0.0013	0.00024	mg/L		04/17/17 16:04	04/18/17 16:26	5
Thallium	<0.000085		0.00050	0.000085	mg/L		04/17/17 16:04	04/18/17 16:26	5

Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.000070		0.00020	0.000070	mg/L		04/24/17 16:40	04/27/17 12:18	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	300		5.0	3.4	mg/L			04/17/17 13:26	1

Client Sample Results

Client: Southern Company
Project/Site: CCR - Plant Scherer

TestAmerica Job ID: 400-136455-1
SDG: Ash Pond

Client Sample ID: SGWC-10

Lab Sample ID: 400-136455-16

Date Collected: 04/12/17 11:10

Matrix: Water

Date Received: 04/14/17 08:44

Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	8.5		1.0	0.89	mg/L			04/19/17 17:14	1
Fluoride	<0.082		0.20	0.082	mg/L			04/19/17 17:14	1
Sulfate	2.8		1.0	0.70	mg/L			04/19/17 17:14	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0010		0.0025	0.0010	mg/L		04/17/17 16:04	04/18/17 16:31	5
Arsenic	<0.00046		0.0013	0.00046	mg/L		04/17/17 16:04	04/18/17 16:31	5
Barium	0.028		0.0025	0.00049	mg/L		04/17/17 16:04	04/18/17 16:31	5
Beryllium	<0.00034		0.0025	0.00034	mg/L		04/17/17 16:04	04/18/17 16:31	5
Boron	0.052		0.050	0.021	mg/L		04/17/17 16:04	04/18/17 16:31	5
Cadmium	<0.00034		0.0025	0.00034	mg/L		04/17/17 16:04	04/18/17 16:31	5
Calcium	2.2		0.25	0.13	mg/L		04/17/17 16:04	04/18/17 16:31	5
Chromium	<0.0011		0.0025	0.0011	mg/L		04/17/17 16:04	04/18/17 16:31	5
Cobalt	0.018		0.0025	0.00040	mg/L		04/17/17 16:04	04/18/17 16:31	5
Lead	<0.00035		0.0013	0.00035	mg/L		04/17/17 16:04	04/18/17 16:31	5
Lithium	<0.0032		0.0050	0.0032	mg/L		04/17/17 16:04	04/18/17 16:31	5
Molybdenum	<0.00085		0.015	0.00085	mg/L		04/17/17 16:04	04/18/17 16:31	5
Selenium	<0.00024		0.0013	0.00024	mg/L		04/17/17 16:04	04/18/17 16:31	5
Thallium	<0.000085		0.00050	0.000085	mg/L		04/17/17 16:04	04/18/17 16:31	5

Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.000070		0.00020	0.000070	mg/L		04/24/17 16:40	04/27/17 12:20	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	18		5.0	3.4	mg/L			04/17/17 13:26	1

Client Sample Results

Client: Southern Company
Project/Site: CCR - Plant Scherer

TestAmerica Job ID: 400-136455-1
SDG: Ash Pond

Client Sample ID: FB-2(AP)

Date Collected: 04/12/17 10:10

Date Received: 04/14/17 08:44

Lab Sample ID: 400-136455-17

Matrix: Water

Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<0.89		1.0	0.89	mg/L			04/19/17 17:37	1
Fluoride	<0.082		0.20	0.082	mg/L			04/19/17 17:37	1
Sulfate	<0.70		1.0	0.70	mg/L			04/19/17 17:37	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0010		0.0025	0.0010	mg/L		04/17/17 16:04	04/18/17 16:35	5
Arsenic	<0.00046		0.0013	0.00046	mg/L		04/17/17 16:04	04/18/17 16:35	5
Barium	<0.00049		0.0025	0.00049	mg/L		04/17/17 16:04	04/18/17 16:35	5
Beryllium	<0.00034		0.0025	0.00034	mg/L		04/17/17 16:04	04/18/17 16:35	5
Boron	<0.021		0.050	0.021	mg/L		04/17/17 16:04	04/18/17 16:35	5
Cadmium	<0.00034		0.0025	0.00034	mg/L		04/17/17 16:04	04/18/17 16:35	5
Calcium	<0.13		0.25	0.13	mg/L		04/17/17 16:04	04/18/17 16:35	5
Chromium	<0.0011		0.0025	0.0011	mg/L		04/17/17 16:04	04/18/17 16:35	5
Cobalt	<0.00040		0.0025	0.00040	mg/L		04/17/17 16:04	04/18/17 16:35	5
Lead	<0.00035		0.0013	0.00035	mg/L		04/17/17 16:04	04/18/17 16:35	5
Lithium	<0.0032		0.0050	0.0032	mg/L		04/17/17 16:04	04/18/17 16:35	5
Molybdenum	<0.00085		0.015	0.00085	mg/L		04/17/17 16:04	04/18/17 16:35	5
Selenium	<0.00024		0.0013	0.00024	mg/L		04/17/17 16:04	04/18/17 16:35	5
Thallium	<0.000085		0.00050	0.000085	mg/L		04/17/17 16:04	04/18/17 16:35	5

Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.000070		0.00020	0.000070	mg/L		04/24/17 16:40	04/27/17 12:22	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	<3.4		5.0	3.4	mg/L			04/17/17 13:26	1

Client Sample Results

Client: Southern Company
Project/Site: CCR - Plant Scherer

TestAmerica Job ID: 400-136455-1
SDG: Ash Pond

Client Sample ID: SGWC-8

Lab Sample ID: 400-136455-18

Date Collected: 04/12/17 09:15

Matrix: Water

Date Received: 04/14/17 08:44

Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	11		1.0	0.89	mg/L			04/19/17 17:59	1
Fluoride	0.41		0.20	0.082	mg/L			04/19/17 17:59	1
Sulfate	64		5.0	3.5	mg/L			04/20/17 17:52	5

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0010		0.0025	0.0010	mg/L		04/17/17 16:04	04/18/17 16:40	5
Arsenic	<0.00046		0.0013	0.00046	mg/L		04/17/17 16:04	04/18/17 16:40	5
Barium	0.18		0.0025	0.00049	mg/L		04/17/17 16:04	04/18/17 16:40	5
Beryllium	<0.00034		0.0025	0.00034	mg/L		04/17/17 16:04	04/18/17 16:40	5
Boron	0.068		0.050	0.021	mg/L		04/17/17 16:04	04/18/17 16:40	5
Cadmium	<0.00034		0.0025	0.00034	mg/L		04/17/17 16:04	04/18/17 16:40	5
Calcium	50		0.25	0.13	mg/L		04/17/17 16:04	04/18/17 16:40	5
Chromium	0.0011	J	0.0025	0.0011	mg/L		04/17/17 16:04	04/18/17 16:40	5
Cobalt	<0.00040		0.0025	0.00040	mg/L		04/17/17 16:04	04/18/17 16:40	5
Lead	<0.00035		0.0013	0.00035	mg/L		04/17/17 16:04	04/18/17 16:40	5
Lithium	<0.0032		0.0050	0.0032	mg/L		04/17/17 16:04	04/18/17 16:40	5
Molybdenum	<0.00085		0.015	0.00085	mg/L		04/17/17 16:04	04/18/17 16:40	5
Selenium	<0.00024		0.0013	0.00024	mg/L		04/17/17 16:04	04/18/17 16:40	5
Thallium	<0.000085		0.00050	0.000085	mg/L		04/17/17 16:04	04/18/17 16:40	5

Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.000070		0.00020	0.000070	mg/L		04/24/17 16:40	04/27/17 12:55	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	370		5.0	3.4	mg/L			04/17/17 13:26	1

Client Sample Results

Client: Southern Company
Project/Site: CCR - Plant Scherer

TestAmerica Job ID: 400-136455-1
SDG: Ash Pond

Client Sample ID: FB-1(AP)

Lab Sample ID: 400-136455-19

Date Collected: 04/12/17 09:00

Matrix: Water

Date Received: 04/14/17 08:44

Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<0.89		1.0	0.89	mg/L			04/19/17 18:22	1
Fluoride	<0.082		0.20	0.082	mg/L			04/19/17 18:22	1
Sulfate	<0.70		1.0	0.70	mg/L			04/19/17 18:22	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0010		0.0025	0.0010	mg/L		04/17/17 16:17	04/18/17 16:58	5
Arsenic	0.00064	J	0.0013	0.00046	mg/L		04/17/17 16:17	04/18/17 16:58	5
Barium	<0.00049		0.0025	0.00049	mg/L		04/17/17 16:17	04/18/17 16:58	5
Beryllium	<0.00034		0.0025	0.00034	mg/L		04/17/17 16:17	04/18/17 16:58	5
Boron	<0.021		0.050	0.021	mg/L		04/17/17 16:17	04/18/17 16:58	5
Cadmium	<0.00034		0.0025	0.00034	mg/L		04/17/17 16:17	04/18/17 16:58	5
Calcium	<0.13		0.25	0.13	mg/L		04/17/17 16:17	04/18/17 16:58	5
Chromium	<0.0011		0.0025	0.0011	mg/L		04/17/17 16:17	04/18/17 16:58	5
Cobalt	<0.00040		0.0025	0.00040	mg/L		04/17/17 16:17	04/18/17 16:58	5
Lead	<0.00035		0.0013	0.00035	mg/L		04/17/17 16:17	04/18/17 16:58	5
Lithium	<0.0032		0.0050	0.0032	mg/L		04/17/17 16:17	04/18/17 16:58	5
Molybdenum	0.0042	J	0.015	0.00085	mg/L		04/17/17 16:17	04/18/17 16:58	5
Selenium	0.0020		0.0013	0.00024	mg/L		04/17/17 16:17	04/18/17 16:58	5
Thallium	<0.000085		0.00050	0.000085	mg/L		04/17/17 16:17	04/18/17 16:58	5

Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.000070		0.00020	0.000070	mg/L		04/24/17 16:40	04/27/17 12:57	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	<3.4		5.0	3.4	mg/L			04/17/17 13:26	1

Client Sample Results

Client: Southern Company
Project/Site: CCR - Plant Scherer

TestAmerica Job ID: 400-136455-1
SDG: Ash Pond

Client Sample ID: SGWC-6

Date Collected: 04/12/17 10:01

Date Received: 04/14/17 08:44

Lab Sample ID: 400-136455-20

Matrix: Water

Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	1.6		1.0	0.89	mg/L			04/19/17 19:08	1
Fluoride	0.089	J	0.20	0.082	mg/L			04/19/17 19:08	1
Sulfate	<0.70		1.0	0.70	mg/L			04/19/17 19:08	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0010		0.0025	0.0010	mg/L		04/17/17 16:17	04/18/17 17:02	5
Arsenic	0.00046	J	0.0013	0.00046	mg/L		04/17/17 16:17	04/18/17 17:02	5
Barium	0.048		0.0025	0.00049	mg/L		04/17/17 16:17	04/18/17 17:02	5
Beryllium	<0.00034		0.0025	0.00034	mg/L		04/17/17 16:17	04/18/17 17:02	5
Boron	<0.021		0.050	0.021	mg/L		04/17/17 16:17	04/18/17 17:02	5
Cadmium	<0.00034		0.0025	0.00034	mg/L		04/17/17 16:17	04/18/17 17:02	5
Calcium	6.7		0.25	0.13	mg/L		04/17/17 16:17	04/18/17 17:02	5
Chromium	<0.0011		0.0025	0.0011	mg/L		04/17/17 16:17	04/18/17 17:02	5
Cobalt	0.0023	J	0.0025	0.00040	mg/L		04/17/17 16:17	04/18/17 17:02	5
Lead	<0.00035		0.0013	0.00035	mg/L		04/17/17 16:17	04/18/17 17:02	5
Lithium	<0.0032		0.0050	0.0032	mg/L		04/17/17 16:17	04/18/17 17:02	5
Molybdenum	<0.00085		0.015	0.00085	mg/L		04/17/17 16:17	04/18/17 17:02	5
Selenium	0.00034	J	0.0013	0.00024	mg/L		04/17/17 16:17	04/18/17 17:02	5
Thallium	<0.000085		0.00050	0.000085	mg/L		04/17/17 16:17	04/18/17 17:02	5

Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.000070		0.00020	0.000070	mg/L		04/24/17 16:40	04/27/17 12:58	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	64		5.0	3.4	mg/L			04/17/17 13:26	1

Client Sample Results

Client: Southern Company
Project/Site: CCR - Plant Scherer

TestAmerica Job ID: 400-136455-1
SDG: Ash Pond

Client Sample ID: SGWC-7

Lab Sample ID: 400-136455-21

Date Collected: 04/12/17 12:11

Matrix: Water

Date Received: 04/14/17 08:44

Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	5.6		1.0	0.89	mg/L			04/19/17 19:31	1
Fluoride	0.20		0.20	0.082	mg/L			04/19/17 19:31	1
Sulfate	18		1.0	0.70	mg/L			04/19/17 19:31	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0010		0.0025	0.0010	mg/L		04/17/17 16:17	04/18/17 17:43	5
Barium	0.30		0.0025	0.00049	mg/L		04/17/17 16:17	04/18/17 17:43	5
Cadmium	<0.00034		0.0025	0.00034	mg/L		04/17/17 16:17	04/18/17 17:43	5
Calcium	25		0.25	0.13	mg/L		04/17/17 16:17	04/18/17 17:43	5
Chromium	<0.0011		0.0025	0.0011	mg/L		04/17/17 16:17	04/18/17 17:43	5
Cobalt	0.0062		0.0025	0.00040	mg/L		04/17/17 16:17	04/18/17 17:43	5
Molybdenum	0.0033	J	0.015	0.00085	mg/L		04/17/17 16:17	04/18/17 17:43	5

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	0.00058	J	0.0013	0.00046	mg/L		04/17/17 16:17	04/26/17 14:42	5
Beryllium	<0.00034		0.0025	0.00034	mg/L		04/17/17 16:17	04/26/17 14:42	5
Boron	0.039	J	0.050	0.021	mg/L		04/17/17 16:17	04/26/17 14:42	5
Lead	<0.00035		0.0013	0.00035	mg/L		04/17/17 16:17	04/26/17 14:42	5
Lithium	0.0051		0.0050	0.0032	mg/L		04/17/17 16:17	04/26/17 14:42	5
Selenium	<0.00024		0.0013	0.00024	mg/L		04/17/17 16:17	04/26/17 14:42	5
Thallium	<0.000085		0.00050	0.000085	mg/L		04/17/17 16:17	04/26/17 14:42	5

Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.000070		0.00020	0.000070	mg/L		04/25/17 08:56	04/26/17 13:44	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	200		5.0	3.4	mg/L			04/17/17 13:26	1

Client Sample Results

Client: Southern Company
Project/Site: CCR - Plant Scherer

TestAmerica Job ID: 400-136455-1
SDG: Ash Pond

Client Sample ID: SGWC-15

Date Collected: 04/12/17 15:11

Date Received: 04/14/17 08:44

Lab Sample ID: 400-136455-22

Matrix: Water

Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	9.2		1.0	0.89	mg/L			04/19/17 19:54	1
Fluoride	0.11	J	0.20	0.082	mg/L			04/19/17 19:54	1
Sulfate	170		5.0	3.5	mg/L			04/20/17 18:15	5

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0010		0.0025	0.0010	mg/L		04/17/17 16:17	04/18/17 17:47	5
Barium	0.038		0.0025	0.00049	mg/L		04/17/17 16:17	04/18/17 17:47	5
Cadmium	<0.00034		0.0025	0.00034	mg/L		04/17/17 16:17	04/18/17 17:47	5
Calcium	14		0.25	0.13	mg/L		04/17/17 16:17	04/18/17 17:47	5
Chromium	0.035		0.0025	0.0011	mg/L		04/17/17 16:17	04/18/17 17:47	5
Cobalt	0.28		0.0025	0.00040	mg/L		04/17/17 16:17	04/18/17 17:47	5
Molybdenum	<0.00085		0.015	0.00085	mg/L		04/17/17 16:17	04/18/17 17:47	5

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	0.00090	J	0.0013	0.00046	mg/L		04/17/17 16:17	04/26/17 14:46	5
Beryllium	0.00035	J	0.0025	0.00034	mg/L		04/17/17 16:17	04/26/17 14:46	5
Boron	1.7		0.050	0.021	mg/L		04/17/17 16:17	04/26/17 14:46	5
Lead	<0.00035		0.0013	0.00035	mg/L		04/17/17 16:17	04/26/17 14:46	5
Lithium	<0.0032		0.0050	0.0032	mg/L		04/17/17 16:17	04/26/17 14:46	5
Selenium	<0.00024		0.0013	0.00024	mg/L		04/17/17 16:17	04/26/17 14:46	5
Thallium	0.000095	J	0.00050	0.000085	mg/L		04/17/17 16:17	04/26/17 14:46	5

Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.000072	J	0.00020	0.000070	mg/L		04/25/17 08:56	04/26/17 13:46	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	280		5.0	3.4	mg/L			04/17/17 13:26	1

Client Sample Results

Client: Southern Company
Project/Site: CCR - Plant Scherer

TestAmerica Job ID: 400-136455-1
SDG: Ash Pond

Client Sample ID: SGWC-9

Lab Sample ID: 400-136455-23

Date Collected: 04/13/17 12:20

Matrix: Water

Date Received: 04/15/17 08:25

Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	8.7		1.0	0.89	mg/L			04/19/17 21:02	1
Fluoride	<0.082		0.20	0.082	mg/L			04/19/17 21:02	1
Sulfate	280		10	7.0	mg/L			04/20/17 19:23	10

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0010		0.0025	0.0010	mg/L		04/17/17 16:17	04/18/17 17:52	5
Barium	0.063		0.0025	0.00049	mg/L		04/17/17 16:17	04/18/17 17:52	5
Cadmium	<0.00034		0.0025	0.00034	mg/L		04/17/17 16:17	04/18/17 17:52	5
Calcium	56		0.25	0.13	mg/L		04/17/17 16:17	04/18/17 17:52	5
Chromium	<0.0011		0.0025	0.0011	mg/L		04/17/17 16:17	04/18/17 17:52	5
Cobalt	0.014		0.0025	0.00040	mg/L		04/17/17 16:17	04/18/17 17:52	5
Molybdenum	0.0010	J	0.015	0.00085	mg/L		04/17/17 16:17	04/18/17 17:52	5

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	0.00079	J	0.0013	0.00046	mg/L		04/17/17 16:17	04/26/17 14:51	5
Beryllium	<0.00034		0.0025	0.00034	mg/L		04/17/17 16:17	04/26/17 14:51	5
Boron	1.7		0.050	0.021	mg/L		04/17/17 16:17	04/26/17 14:51	5
Lead	<0.00035		0.0013	0.00035	mg/L		04/17/17 16:17	04/26/17 14:51	5
Lithium	<0.0032		0.0050	0.0032	mg/L		04/17/17 16:17	04/26/17 14:51	5
Selenium	<0.00024		0.0013	0.00024	mg/L		04/17/17 16:17	04/26/17 14:51	5
Thallium	<0.000085		0.00050	0.000085	mg/L		04/17/17 16:17	04/26/17 14:51	5

Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.000070		0.00020	0.000070	mg/L		04/25/17 08:56	04/26/17 13:48	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	590		5.0	3.4	mg/L			04/18/17 09:42	1

Client Sample Results

Client: Southern Company
Project/Site: CCR - Plant Scherer

TestAmerica Job ID: 400-136455-1
SDG: Ash Pond

Client Sample ID: SGWC-16

Date Collected: 04/13/17 09:40

Date Received: 04/15/17 08:25

Lab Sample ID: 400-136455-24

Matrix: Water

Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	7.5		1.0	0.89	mg/L			04/19/17 21:25	1
Fluoride	<0.082		0.20	0.082	mg/L			04/19/17 21:25	1
Sulfate	15		1.0	0.70	mg/L			04/19/17 21:25	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0010		0.0025	0.0010	mg/L		04/17/17 16:17	04/18/17 17:56	5
Barium	0.019		0.0025	0.00049	mg/L		04/17/17 16:17	04/18/17 17:56	5
Cadmium	<0.00034		0.0025	0.00034	mg/L		04/17/17 16:17	04/18/17 17:56	5
Calcium	0.88		0.25	0.13	mg/L		04/17/17 16:17	04/18/17 17:56	5
Chromium	0.0098		0.0025	0.0011	mg/L		04/17/17 16:17	04/18/17 17:56	5
Cobalt	0.0034		0.0025	0.00040	mg/L		04/17/17 16:17	04/18/17 17:56	5
Lead	<0.00035		0.0013	0.00035	mg/L		04/17/17 16:17	04/18/17 17:56	5
Molybdenum	<0.00085		0.015	0.00085	mg/L		04/17/17 16:17	04/18/17 17:56	5

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.00046		0.0013	0.00046	mg/L		04/17/17 16:17	04/26/17 14:55	5
Beryllium	<0.00034		0.0025	0.00034	mg/L		04/17/17 16:17	04/26/17 14:55	5
Boron	0.56		0.050	0.021	mg/L		04/17/17 16:17	04/26/17 14:55	5
Lithium	<0.0032		0.0050	0.0032	mg/L		04/17/17 16:17	04/26/17 14:55	5
Selenium	<0.00024		0.0013	0.00024	mg/L		04/17/17 16:17	04/26/17 14:55	5
Thallium	<0.000085		0.00050	0.000085	mg/L		04/17/17 16:17	04/26/17 14:55	5

Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.000070		0.00020	0.000070	mg/L		04/25/17 08:56	04/26/17 13:49	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	76		5.0	3.4	mg/L			04/18/17 09:42	1

Client Sample Results

Client: Southern Company
Project/Site: CCR - Plant Scherer

TestAmerica Job ID: 400-136455-1
SDG: Ash Pond

Client Sample ID: FD-3(AP)

Date Collected: 04/13/17 00:00

Date Received: 04/15/17 08:25

Lab Sample ID: 400-136455-25

Matrix: Water

Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	7.6		1.0	0.89	mg/L			04/19/17 21:48	1
Fluoride	<0.082		0.20	0.082	mg/L			04/19/17 21:48	1
Sulfate	15		1.0	0.70	mg/L			04/19/17 21:48	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0010		0.0025	0.0010	mg/L		04/17/17 16:17	04/18/17 18:01	5
Barium	0.019		0.0025	0.00049	mg/L		04/17/17 16:17	04/18/17 18:01	5
Cadmium	<0.00034		0.0025	0.00034	mg/L		04/17/17 16:17	04/18/17 18:01	5
Calcium	0.84		0.25	0.13	mg/L		04/17/17 16:17	04/18/17 18:01	5
Chromium	0.010		0.0025	0.0011	mg/L		04/17/17 16:17	04/18/17 18:01	5
Cobalt	0.0034		0.0025	0.00040	mg/L		04/17/17 16:17	04/18/17 18:01	5
Molybdenum	<0.00085		0.015	0.00085	mg/L		04/17/17 16:17	04/18/17 18:01	5

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	0.00051	J	0.0013	0.00046	mg/L		04/17/17 16:17	04/26/17 14:59	5
Beryllium	<0.00034		0.0025	0.00034	mg/L		04/17/17 16:17	04/26/17 14:59	5
Boron	0.57		0.050	0.021	mg/L		04/17/17 16:17	04/26/17 14:59	5
Lead	<0.00035		0.0013	0.00035	mg/L		04/17/17 16:17	04/26/17 14:59	5
Lithium	<0.0032		0.0050	0.0032	mg/L		04/17/17 16:17	04/26/17 14:59	5
Selenium	<0.00024		0.0013	0.00024	mg/L		04/17/17 16:17	04/26/17 14:59	5
Thallium	<0.000085		0.00050	0.000085	mg/L		04/17/17 16:17	04/26/17 14:59	5

Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.000070		0.00020	0.000070	mg/L		04/25/17 08:56	04/26/17 13:51	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	40		5.0	3.4	mg/L			04/17/17 13:26	1

Client Sample Results

Client: Southern Company
Project/Site: CCR - Plant Scherer

TestAmerica Job ID: 400-136455-1
SDG: Ash Pond

Client Sample ID: SGWC-17

Date Collected: 04/13/17 11:30

Date Received: 04/15/17 08:25

Lab Sample ID: 400-136455-26

Matrix: Water

Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	7.9		1.0	0.89	mg/L			04/19/17 22:11	1
Fluoride	<0.082		0.20	0.082	mg/L			04/19/17 22:11	1
Sulfate	140		5.0	3.5	mg/L			04/20/17 19:46	5

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0010		0.0025	0.0010	mg/L		04/17/17 16:17	04/18/17 18:05	5
Barium	0.019		0.0025	0.00049	mg/L		04/17/17 16:17	04/18/17 18:05	5
Cadmium	<0.00034		0.0025	0.00034	mg/L		04/17/17 16:17	04/18/17 18:05	5
Calcium	45		0.25	0.13	mg/L		04/17/17 16:17	04/18/17 18:05	5
Chromium	0.0047		0.0025	0.0011	mg/L		04/17/17 16:17	04/18/17 18:05	5
Cobalt	0.00049	J	0.0025	0.00040	mg/L		04/17/17 16:17	04/18/17 18:05	5
Lead	<0.00035		0.0013	0.00035	mg/L		04/17/17 16:17	04/18/17 18:05	5
Molybdenum	<0.00085		0.015	0.00085	mg/L		04/17/17 16:17	04/18/17 18:05	5

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	0.00066	J	0.0013	0.00046	mg/L		04/17/17 16:17	04/26/17 15:04	5
Beryllium	<0.00034		0.0025	0.00034	mg/L		04/17/17 16:17	04/26/17 15:04	5
Boron	0.34		0.050	0.021	mg/L		04/17/17 16:17	04/26/17 15:04	5
Lithium	<0.0032		0.0050	0.0032	mg/L		04/17/17 16:17	04/26/17 15:04	5
Selenium	<0.00024		0.0013	0.00024	mg/L		04/17/17 16:17	04/26/17 15:04	5
Thallium	<0.000085		0.00050	0.000085	mg/L		04/17/17 16:17	04/26/17 15:04	5

Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.000070		0.00020	0.000070	mg/L		04/25/17 08:56	04/26/17 13:53	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	390		5.0	3.4	mg/L			04/18/17 09:42	1

Client Sample Results

Client: Southern Company
Project/Site: CCR - Plant Scherer

TestAmerica Job ID: 400-136455-1
SDG: Ash Pond

Client Sample ID: SGWC-18

Lab Sample ID: 400-136455-27

Date Collected: 04/13/17 13:30

Matrix: Water

Date Received: 04/15/17 08:25

Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	8.9		1.0	0.89	mg/L			04/19/17 22:33	1
Fluoride	<0.082		0.20	0.082	mg/L			04/19/17 22:33	1
Sulfate	380		20	14	mg/L			04/20/17 20:09	20

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0010		0.0025	0.0010	mg/L		04/17/17 16:17	04/18/17 18:32	5
Cadmium	<0.00034		0.0025	0.00034	mg/L		04/17/17 16:17	04/18/17 18:32	5
Calcium	35		0.25	0.13	mg/L		04/17/17 16:17	04/18/17 18:32	5
Chromium	0.0061		0.0025	0.0011	mg/L		04/17/17 16:17	04/18/17 18:32	5
Cobalt	0.094		0.0025	0.00040	mg/L		04/17/17 16:17	04/18/17 18:32	5
Molybdenum	<0.00085		0.015	0.00085	mg/L		04/17/17 16:17	04/18/17 18:32	5

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Boron	3.8		0.25	0.11	mg/L		04/17/17 16:17	04/26/17 15:31	25

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	0.00058	J	0.0013	0.00046	mg/L		04/17/17 16:17	04/26/17 15:26	5
Barium	0.012		0.0025	0.00049	mg/L		04/17/17 16:17	04/26/17 15:26	5
Beryllium	<0.00034		0.0025	0.00034	mg/L		04/17/17 16:17	04/26/17 15:26	5
Lead	<0.00035		0.0013	0.00035	mg/L		04/17/17 16:17	04/26/17 15:26	5
Lithium	<0.0032		0.0050	0.0032	mg/L		04/17/17 16:17	04/26/17 15:26	5
Selenium	0.0049		0.0013	0.00024	mg/L		04/17/17 16:17	04/26/17 15:26	5
Thallium	0.00012	J	0.00050	0.000085	mg/L		04/17/17 16:17	04/26/17 15:26	5

Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.000070		0.00020	0.000070	mg/L		04/25/17 08:56	04/26/17 13:54	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	640		5.0	3.4	mg/L			04/18/17 09:42	1

Client Sample Results

Client: Southern Company
Project/Site: CCR - Plant Scherer

TestAmerica Job ID: 400-136455-1
SDG: Ash Pond

Client Sample ID: SGWC-19

Lab Sample ID: 400-136455-28

Date Collected: 04/13/17 13:40

Matrix: Water

Date Received: 04/15/17 08:25

Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	7.5		1.0	0.89	mg/L			04/19/17 22:56	1
Fluoride	<0.082		0.20	0.082	mg/L			04/19/17 22:56	1
Sulfate	190		5.0	3.5	mg/L			04/20/17 20:32	5

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0010		0.0025	0.0010	mg/L		04/17/17 16:17	04/18/17 18:37	5
Cadmium	<0.00034		0.0025	0.00034	mg/L		04/17/17 16:17	04/18/17 18:37	5
Calcium	39		0.25	0.13	mg/L		04/17/17 16:17	04/18/17 18:37	5
Chromium	0.016		0.0025	0.0011	mg/L		04/17/17 16:17	04/18/17 18:37	5
Cobalt	<0.00040		0.0025	0.00040	mg/L		04/17/17 16:17	04/18/17 18:37	5
Molybdenum	<0.00085		0.015	0.00085	mg/L		04/17/17 16:17	04/18/17 18:37	5

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Boron	1.9		0.25	0.11	mg/L		04/17/17 16:17	04/26/17 16:07	25

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.00046		0.0013	0.00046	mg/L		04/17/17 16:17	04/26/17 15:35	5
Barium	0.037		0.0025	0.00049	mg/L		04/17/17 16:17	04/26/17 15:35	5
Beryllium	<0.00034		0.0025	0.00034	mg/L		04/17/17 16:17	04/26/17 15:35	5
Lead	<0.00035		0.0013	0.00035	mg/L		04/17/17 16:17	04/26/17 15:35	5
Lithium	<0.0032		0.0050	0.0032	mg/L		04/17/17 16:17	04/26/17 15:35	5
Selenium	<0.00024		0.0013	0.00024	mg/L		04/17/17 16:17	04/26/17 15:35	5
Thallium	<0.000085		0.00050	0.000085	mg/L		04/17/17 16:17	04/26/17 15:35	5

Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.000070		0.00020	0.000070	mg/L		04/25/17 08:56	04/26/17 13:56	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	350		5.0	3.4	mg/L			04/18/17 09:42	1

Client Sample Results

Client: Southern Company
Project/Site: CCR - Plant Scherer

TestAmerica Job ID: 400-136455-1
SDG: Ash Pond

Client Sample ID: SGWC-20

Lab Sample ID: 400-136455-29

Date Collected: 04/13/17 11:35

Matrix: Water

Date Received: 04/15/17 08:25

Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	10		1.0	0.89	mg/L			04/20/17 00:27	1
Fluoride	0.20		0.20	0.082	mg/L			04/20/17 00:27	1
Sulfate	220		10	7.0	mg/L			04/21/17 19:09	10

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0010		0.0025	0.0010	mg/L		04/17/17 16:17	04/18/17 18:41	5
Cadmium	<0.00034		0.0025	0.00034	mg/L		04/17/17 16:17	04/18/17 18:41	5
Calcium	17		0.25	0.13	mg/L		04/17/17 16:17	04/18/17 18:41	5
Chromium	<0.0011		0.0025	0.0011	mg/L		04/17/17 16:17	04/18/17 18:41	5
Cobalt	0.19		0.0025	0.00040	mg/L		04/17/17 16:17	04/18/17 18:41	5
Molybdenum	<0.00085		0.015	0.00085	mg/L		04/17/17 16:17	04/18/17 18:41	5

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Boron	2.0		0.25	0.11	mg/L		04/17/17 16:17	04/26/17 16:34	25

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.00046		0.0013	0.00046	mg/L		04/17/17 16:17	04/26/17 15:40	5
Barium	0.028		0.0025	0.00049	mg/L		04/17/17 16:17	04/26/17 15:40	5
Beryllium	0.00065	J	0.0025	0.00034	mg/L		04/17/17 16:17	04/26/17 15:40	5
Lead	<0.00035		0.0013	0.00035	mg/L		04/17/17 16:17	04/26/17 15:40	5
Lithium	0.0040	J	0.0050	0.0032	mg/L		04/17/17 16:17	04/26/17 15:40	5
Selenium	<0.00024		0.0013	0.00024	mg/L		04/17/17 16:17	04/26/17 15:40	5
Thallium	0.00021	J	0.00050	0.000085	mg/L		04/17/17 16:17	04/26/17 15:40	5

Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.000070		0.00020	0.000070	mg/L		04/25/17 08:56	04/26/17 13:58	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	380		5.0	3.4	mg/L			04/18/17 09:42	1

Client Sample Results

Client: Southern Company
Project/Site: CCR - Plant Scherer

TestAmerica Job ID: 400-136455-1
SDG: Ash Pond

Client Sample ID: SGWC-21

Date Collected: 04/13/17 09:58

Date Received: 04/15/17 08:25

Lab Sample ID: 400-136455-30

Matrix: Water

Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	7.4		1.0	0.89	mg/L			04/20/17 02:22	1
Fluoride	<0.082		0.20	0.082	mg/L			04/20/17 02:22	1
Sulfate	70		5.0	3.5	mg/L			04/20/17 22:03	5

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0010		0.0025	0.0010	mg/L		04/17/17 16:17	04/18/17 18:46	5
Beryllium	<0.00034	^	0.0025	0.00034	mg/L		04/17/17 16:17	04/18/17 18:46	5
Cadmium	<0.00034		0.0025	0.00034	mg/L		04/17/17 16:17	04/18/17 18:46	5
Calcium	32		0.25	0.13	mg/L		04/17/17 16:17	04/18/17 18:46	5
Chromium	<0.0011		0.0025	0.0011	mg/L		04/17/17 16:17	04/18/17 18:46	5
Cobalt	<0.00040		0.0025	0.00040	mg/L		04/17/17 16:17	04/18/17 18:46	5
Molybdenum	<0.00085		0.015	0.00085	mg/L		04/17/17 16:17	04/18/17 18:46	5

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.00046		0.0013	0.00046	mg/L		04/17/17 16:17	04/26/17 15:45	5
Barium	0.088		0.0025	0.00049	mg/L		04/17/17 16:17	04/26/17 15:45	5
Boron	1.4		0.050	0.021	mg/L		04/17/17 16:17	04/26/17 15:45	5
Lead	<0.00035		0.0013	0.00035	mg/L		04/17/17 16:17	04/26/17 15:45	5
Lithium	<0.0032		0.0050	0.0032	mg/L		04/17/17 16:17	04/26/17 15:45	5
Selenium	<0.00024		0.0013	0.00024	mg/L		04/17/17 16:17	04/26/17 15:45	5
Thallium	<0.000085		0.00050	0.000085	mg/L		04/17/17 16:17	04/26/17 15:45	5

Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.000070		0.00020	0.000070	mg/L		04/25/17 08:56	04/26/17 14:11	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	300		5.0	3.4	mg/L			04/18/17 09:42	1

Client Sample Results

Client: Southern Company
Project/Site: CCR - Plant Scherer

TestAmerica Job ID: 400-136455-1
SDG: Ash Pond

Client Sample ID: SGWC-22

Lab Sample ID: 400-136455-31

Date Collected: 04/13/17 10:25

Matrix: Water

Date Received: 04/15/17 08:25

Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	9.6		1.0	0.89	mg/L			04/20/17 02:44	1
Fluoride	<0.082		0.20	0.082	mg/L			04/20/17 02:44	1
Sulfate	79		5.0	3.5	mg/L			04/20/17 21:17	5

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0010		0.0025	0.0010	mg/L		04/17/17 16:17	04/18/17 18:50	5
Cadmium	<0.00034		0.0025	0.00034	mg/L		04/17/17 16:17	04/18/17 18:50	5
Calcium	27		0.25	0.13	mg/L		04/17/17 16:17	04/18/17 18:50	5
Chromium	<0.0011		0.0025	0.0011	mg/L		04/17/17 16:17	04/18/17 18:50	5
Cobalt	0.0031		0.0025	0.00040	mg/L		04/17/17 16:17	04/18/17 18:50	5
Molybdenum	<0.00085		0.015	0.00085	mg/L		04/17/17 16:17	04/18/17 18:50	5

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	0.00060	J	0.0013	0.00046	mg/L		04/17/17 16:17	04/26/17 15:49	5
Barium	0.091		0.0025	0.00049	mg/L		04/17/17 16:17	04/26/17 15:49	5
Beryllium	<0.00034		0.0025	0.00034	mg/L		04/17/17 16:17	04/26/17 15:49	5
Boron	0.40		0.050	0.021	mg/L		04/17/17 16:17	04/26/17 15:49	5
Lead	<0.00035		0.0013	0.00035	mg/L		04/17/17 16:17	04/26/17 15:49	5
Lithium	<0.0032		0.0050	0.0032	mg/L		04/17/17 16:17	04/26/17 15:49	5
Selenium	<0.00024		0.0013	0.00024	mg/L		04/17/17 16:17	04/26/17 15:49	5
Thallium	<0.000085		0.00050	0.000085	mg/L		04/17/17 16:17	04/26/17 15:49	5

Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.000070		0.00020	0.000070	mg/L		04/25/17 08:56	04/26/17 14:13	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	220		5.0	3.4	mg/L			04/18/17 09:42	1

Client Sample Results

Client: Southern Company
Project/Site: CCR - Plant Scherer

TestAmerica Job ID: 400-136455-1
SDG: Ash Pond

Client Sample ID: SGWC-23

Lab Sample ID: 400-136455-32

Date Collected: 04/13/17 09:10

Matrix: Water

Date Received: 04/15/17 08:25

Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	9.0		1.0	0.89	mg/L			04/20/17 03:07	1
Fluoride	<0.082		0.20	0.082	mg/L			04/20/17 03:07	1
Sulfate	100		5.0	3.5	mg/L			04/20/17 22:26	5

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0010		0.0025	0.0010	mg/L		04/17/17 16:17	04/18/17 18:55	5
Cadmium	<0.00034		0.0025	0.00034	mg/L		04/17/17 16:17	04/18/17 18:55	5
Calcium	31		0.25	0.13	mg/L		04/17/17 16:17	04/18/17 18:55	5
Chromium	0.0014	J	0.0025	0.0011	mg/L		04/17/17 16:17	04/18/17 18:55	5
Cobalt	<0.00040		0.0025	0.00040	mg/L		04/17/17 16:17	04/18/17 18:55	5
Molybdenum	<0.00085		0.015	0.00085	mg/L		04/17/17 16:17	04/18/17 18:55	5

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	0.00061	J	0.0013	0.00046	mg/L		04/17/17 16:17	04/26/17 15:54	5
Barium	0.081		0.0025	0.00049	mg/L		04/17/17 16:17	04/26/17 15:54	5
Beryllium	<0.00034		0.0025	0.00034	mg/L		04/17/17 16:17	04/26/17 15:54	5
Boron	0.54		0.050	0.021	mg/L		04/17/17 16:17	04/26/17 15:54	5
Lead	<0.00035		0.0013	0.00035	mg/L		04/17/17 16:17	04/26/17 15:54	5
Lithium	0.0036	J	0.0050	0.0032	mg/L		04/17/17 16:17	04/26/17 15:54	5
Selenium	<0.00024		0.0013	0.00024	mg/L		04/17/17 16:17	04/26/17 15:54	5
Thallium	<0.000085		0.00050	0.000085	mg/L		04/17/17 16:17	04/26/17 15:54	5

Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.000070		0.00020	0.000070	mg/L		04/25/17 08:56	04/26/17 14:14	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	300		5.0	3.4	mg/L			04/18/17 09:42	1

Client Sample Results

Client: Southern Company
Project/Site: CCR - Plant Scherer

TestAmerica Job ID: 400-136455-1
SDG: Ash Pond

Client Sample ID: FB-3(AP)

Lab Sample ID: 400-136455-33

Date Collected: 04/13/17 09:00

Matrix: Water

Date Received: 04/15/17 08:25

Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<0.89		1.0	0.89	mg/L			04/20/17 03:30	1
Fluoride	<0.082		0.20	0.082	mg/L			04/20/17 03:30	1
Sulfate	<0.70		1.0	0.70	mg/L			04/20/17 03:30	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0010		0.0025	0.0010	mg/L		04/17/17 16:17	04/18/17 18:59	5
Cadmium	<0.00034		0.0025	0.00034	mg/L		04/17/17 16:17	04/18/17 18:59	5
Calcium	<0.13		0.25	0.13	mg/L		04/17/17 16:17	04/18/17 18:59	5
Chromium	<0.0011		0.0025	0.0011	mg/L		04/17/17 16:17	04/18/17 18:59	5
Cobalt	<0.00040		0.0025	0.00040	mg/L		04/17/17 16:17	04/18/17 18:59	5
Molybdenum	<0.00085		0.015	0.00085	mg/L		04/17/17 16:17	04/18/17 18:59	5

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.00046		0.0013	0.00046	mg/L		04/17/17 16:17	04/26/17 15:58	5
Barium	<0.00049		0.0025	0.00049	mg/L		04/17/17 16:17	04/26/17 15:58	5
Beryllium	<0.00034		0.0025	0.00034	mg/L		04/17/17 16:17	04/26/17 15:58	5
Boron	0.024	J	0.050	0.021	mg/L		04/17/17 16:17	04/26/17 15:58	5
Lead	<0.00035		0.0013	0.00035	mg/L		04/17/17 16:17	04/26/17 15:58	5
Lithium	<0.0032		0.0050	0.0032	mg/L		04/17/17 16:17	04/26/17 15:58	5
Selenium	<0.00024		0.0013	0.00024	mg/L		04/17/17 16:17	04/26/17 15:58	5
Thallium	<0.000085		0.00050	0.000085	mg/L		04/17/17 16:17	04/26/17 15:58	5

Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.000070		0.00020	0.000070	mg/L		04/25/17 08:56	04/26/17 14:16	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	<3.4		5.0	3.4	mg/L			04/18/17 09:42	1

Client Sample Results

Client: Southern Company
Project/Site: CCR - Plant Scherer

TestAmerica Job ID: 400-136455-1
SDG: Ash Pond

Client Sample ID: EB-3(AP)

Date Collected: 04/13/17 14:00

Date Received: 04/15/17 08:25

Lab Sample ID: 400-136455-34

Matrix: Water

Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<0.89		1.0	0.89	mg/L			04/20/17 03:53	1
Fluoride	<0.082		0.20	0.082	mg/L			04/20/17 03:53	1
Sulfate	<0.70		1.0	0.70	mg/L			04/20/17 03:53	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0010		0.0025	0.0010	mg/L		04/17/17 16:17	04/18/17 19:04	5
Cadmium	<0.00034		0.0025	0.00034	mg/L		04/17/17 16:17	04/18/17 19:04	5
Calcium	<0.13		0.25	0.13	mg/L		04/17/17 16:17	04/18/17 19:04	5
Chromium	<0.0011		0.0025	0.0011	mg/L		04/17/17 16:17	04/18/17 19:04	5
Cobalt	<0.00040		0.0025	0.00040	mg/L		04/17/17 16:17	04/18/17 19:04	5
Molybdenum	<0.00085		0.015	0.00085	mg/L		04/17/17 16:17	04/18/17 19:04	5

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.00046		0.0013	0.00046	mg/L		04/17/17 16:17	04/26/17 16:03	5
Barium	<0.00049		0.0025	0.00049	mg/L		04/17/17 16:17	04/26/17 16:03	5
Beryllium	<0.00034		0.0025	0.00034	mg/L		04/17/17 16:17	04/26/17 16:03	5
Boron	<0.021		0.050	0.021	mg/L		04/17/17 16:17	04/26/17 16:03	5
Lead	<0.00035		0.0013	0.00035	mg/L		04/17/17 16:17	04/26/17 16:03	5
Lithium	<0.0032		0.0050	0.0032	mg/L		04/17/17 16:17	04/26/17 16:03	5
Selenium	<0.00024		0.0013	0.00024	mg/L		04/17/17 16:17	04/26/17 16:03	5
Thallium	<0.000085		0.00050	0.000085	mg/L		04/17/17 16:17	04/26/17 16:03	5

Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.000070		0.00020	0.000070	mg/L		04/25/17 08:56	04/26/17 14:18	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	<3.4		5.0	3.4	mg/L			04/18/17 09:42	1

Definitions/Glossary

Client: Southern Company
Project/Site: CCR - Plant Scherer

TestAmerica Job ID: 400-136455-1
SDG: Ash Pond

Qualifiers

HPLC/IC

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.
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.

Metals

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.
^	ICV,CCV,ICB,CCB, ISA, ISB, CRI, CRA, DLCK or MRL standard: Instrument related QC is outside acceptance limits.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
α	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CNF	Contains no Free Liquid
DER	Duplicate error ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision level concentration
MDA	Minimum detectable activity
EDL	Estimated Detection Limit
MDC	Minimum detectable concentration
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
NC	Not Calculated
ND	Not detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RER	Relative error ratio
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)

Lab Chronicle

Client: Southern Company
Project/Site: CCR - Plant Scherer

TestAmerica Job ID: 400-136455-1
SDG: Ash Pond

Client Sample ID: SGWA-24

Date Collected: 04/10/17 16:25

Date Received: 04/12/17 09:40

Lab Sample ID: 400-136455-1

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	300.0		1	350283	04/18/17 22:50	TAJ	TAL PEN
Total Recoverable	Prep	3005A			349651	04/13/17 15:40	DRE	TAL PEN
Total Recoverable	Analysis	6020		5	350033	04/14/17 14:24	DRE	TAL PEN
Total/NA	Prep	7470A			351066	04/24/17 16:40	JAP	TAL PEN
Total/NA	Analysis	7470A		1	351589	04/27/17 10:49	JAP	TAL PEN
Total/NA	Analysis	SM 2540C		1	349918	04/15/17 16:01	TET	TAL PEN

Client Sample ID: SGWA-4

Date Collected: 04/11/17 16:25

Date Received: 04/13/17 09:01

Lab Sample ID: 400-136455-2

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	300.0		1	350283	04/18/17 23:59	TAJ	TAL PEN
Total Recoverable	Prep	3005A			350105	04/17/17 16:04	DRE	TAL PEN
Total Recoverable	Analysis	6020		5	350346	04/18/17 14:52	DRE	TAL PEN
Total/NA	Prep	7470A			351066	04/24/17 16:40	JAP	TAL PEN
Total/NA	Analysis	7470A		1	351589	04/27/17 10:56	JAP	TAL PEN
Total/NA	Analysis	SM 2540C		1	349918	04/15/17 16:01	TET	TAL PEN

Client Sample ID: SGWA-5

Date Collected: 04/11/17 15:46

Date Received: 04/13/17 09:01

Lab Sample ID: 400-136455-3

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	300.0		1	350283	04/19/17 00:22	TAJ	TAL PEN
Total Recoverable	Prep	3005A			350105	04/17/17 16:04	DRE	TAL PEN
Total Recoverable	Analysis	6020		5	350346	04/18/17 15:14	DRE	TAL PEN
Total/NA	Prep	7470A			351066	04/24/17 16:40	JAP	TAL PEN
Total/NA	Analysis	7470A		1	351589	04/27/17 10:58	JAP	TAL PEN
Total/NA	Analysis	SM 2540C		1	349918	04/15/17 16:01	TET	TAL PEN

Client Sample ID: EB-1(AP)

Date Collected: 04/11/17 17:00

Date Received: 04/13/17 09:01

Lab Sample ID: 400-136455-4

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	300.0		1	350283	04/19/17 00:44	TAJ	TAL PEN
Total Recoverable	Prep	3005A			350105	04/17/17 16:04	DRE	TAL PEN
Total Recoverable	Analysis	6020		5	350346	04/18/17 15:19	DRE	TAL PEN
Total/NA	Prep	7470A			351066	04/24/17 16:40	JAP	TAL PEN
Total/NA	Analysis	7470A		1	351589	04/27/17 11:00	JAP	TAL PEN
Total/NA	Analysis	SM 2540C		1	349918	04/15/17 16:01	TET	TAL PEN

TestAmerica Pensacola

Lab Chronicle

Client: Southern Company
Project/Site: CCR - Plant Scherer

TestAmerica Job ID: 400-136455-1
SDG: Ash Pond

Client Sample ID: SGWA-1

Date Collected: 04/11/17 10:35

Date Received: 04/13/17 09:01

Lab Sample ID: 400-136455-5

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	300.0		1	350283	04/19/17 01:07	TAJ	TAL PEN
Total Recoverable	Prep	3005A			350105	04/17/17 16:04	DRE	TAL PEN
Total Recoverable	Analysis	6020		5	350346	04/18/17 15:23	DRE	TAL PEN
Total/NA	Prep	7470A			351066	04/24/17 16:40	JAP	TAL PEN
Total/NA	Analysis	7470A		1	351589	04/27/17 11:01	JAP	TAL PEN
Total/NA	Analysis	SM 2540C		1	349918	04/15/17 16:01	TET	TAL PEN

Client Sample ID: SGWA-2

Date Collected: 04/11/17 11:50

Date Received: 04/13/17 09:01

Lab Sample ID: 400-136455-6

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	300.0		1	350283	04/19/17 01:30	TAJ	TAL PEN
Total Recoverable	Prep	3005A			350105	04/17/17 16:04	DRE	TAL PEN
Total Recoverable	Analysis	6020		5	350346	04/18/17 15:28	DRE	TAL PEN
Total/NA	Prep	7470A			351066	04/24/17 16:40	JAP	TAL PEN
Total/NA	Analysis	7470A		1	351589	04/27/17 11:03	JAP	TAL PEN
Total/NA	Analysis	SM 2540C		1	349918	04/15/17 16:01	TET	TAL PEN

Client Sample ID: FD-1(AP)

Date Collected: 04/11/17 00:00

Date Received: 04/13/17 09:01

Lab Sample ID: 400-136455-7

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	300.0		1	350283	04/19/17 01:53	TAJ	TAL PEN
Total Recoverable	Prep	3005A			350105	04/17/17 16:04	DRE	TAL PEN
Total Recoverable	Analysis	6020		5	350346	04/18/17 15:32	DRE	TAL PEN
Total/NA	Prep	7470A			351066	04/24/17 16:40	JAP	TAL PEN
Total/NA	Analysis	7470A		1	351589	04/27/17 11:05	JAP	TAL PEN
Total/NA	Analysis	SM 2540C		1	349918	04/15/17 16:01	TET	TAL PEN

Client Sample ID: SGWA-3

Date Collected: 04/11/17 15:15

Date Received: 04/13/17 09:01

Lab Sample ID: 400-136455-8

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	300.0		1	350283	04/19/17 02:16	TAJ	TAL PEN
Total Recoverable	Prep	3005A			350105	04/17/17 16:04	DRE	TAL PEN
Total Recoverable	Analysis	6020		5	350346	04/18/17 15:37	DRE	TAL PEN
Total/NA	Prep	7470A			351066	04/24/17 16:40	JAP	TAL PEN
Total/NA	Analysis	7470A		1	351589	04/27/17 12:06	JAP	TAL PEN
Total/NA	Analysis	SM 2540C		1	349918	04/15/17 16:01	TET	TAL PEN

TestAmerica Pensacola

Lab Chronicle

Client: Southern Company
Project/Site: CCR - Plant Scherer

TestAmerica Job ID: 400-136455-1
SDG: Ash Pond

Client Sample ID: SGWA-25

Lab Sample ID: 400-136455-9

Date Collected: 04/11/17 16:55

Matrix: Water

Date Received: 04/13/17 09:01

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	300.0		1	350367	04/19/17 12:15	KH1	TAL PEN
Total Recoverable	Prep	3005A			350105	04/17/17 16:04	DRE	TAL PEN
Total Recoverable	Analysis	6020		5	350346	04/18/17 15:41	DRE	TAL PEN
Total/NA	Prep	7470A			351066	04/24/17 16:40	JAP	TAL PEN
Total/NA	Analysis	7470A		1	351589	04/27/17 12:08	JAP	TAL PEN
Total/NA	Analysis	SM 2540C		1	349918	04/15/17 16:01	TET	TAL PEN

Client Sample ID: SGWC-13

Lab Sample ID: 400-136455-10

Date Collected: 04/12/17 14:00

Matrix: Water

Date Received: 04/14/17 08:44

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	300.0		1	350367	04/19/17 13:24	KH1	TAL PEN
Total/NA	Analysis	300.0		5	350605	04/20/17 16:20	KH1	TAL PEN
Total Recoverable	Prep	3005A			350105	04/17/17 16:04	DRE	TAL PEN
Total Recoverable	Analysis	6020		5	350346	04/18/17 15:46	DRE	TAL PEN
Total/NA	Prep	7470A			351066	04/24/17 16:40	JAP	TAL PEN
Total/NA	Analysis	7470A		1	351589	04/27/17 12:10	JAP	TAL PEN
Total/NA	Analysis	SM 2540C		1	349991	04/17/17 13:26	RRC	TAL PEN

Client Sample ID: EB-2(AP)

Lab Sample ID: 400-136455-11

Date Collected: 04/12/17 14:50

Matrix: Water

Date Received: 04/14/17 08:44

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	300.0		1	350367	04/19/17 13:47	KH1	TAL PEN
Total Recoverable	Prep	3005A			350105	04/17/17 16:04	DRE	TAL PEN
Total Recoverable	Analysis	6020		5	350346	04/18/17 15:50	DRE	TAL PEN
Total/NA	Prep	7470A			351066	04/24/17 16:40	JAP	TAL PEN
Total/NA	Analysis	7470A		1	351589	04/27/17 12:11	JAP	TAL PEN
Total/NA	Analysis	SM 2540C		1	349991	04/17/17 13:26	RRC	TAL PEN

Client Sample ID: SGWC-12

Lab Sample ID: 400-136455-12

Date Collected: 04/12/17 11:30

Matrix: Water

Date Received: 04/14/17 08:44

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	300.0		1	350367	04/19/17 14:57	KH1	TAL PEN
Total Recoverable	Prep	3005A			350105	04/17/17 16:04	DRE	TAL PEN
Total Recoverable	Analysis	6020		5	350346	04/18/17 15:55	DRE	TAL PEN
Total/NA	Prep	7470A			351066	04/24/17 16:40	JAP	TAL PEN
Total/NA	Analysis	7470A		1	351589	04/27/17 12:13	JAP	TAL PEN

TestAmerica Pensacola

Lab Chronicle

Client: Southern Company
Project/Site: CCR - Plant Scherer

TestAmerica Job ID: 400-136455-1
SDG: Ash Pond

Client Sample ID: SGWC-12

Lab Sample ID: 400-136455-12

Date Collected: 04/12/17 11:30

Matrix: Water

Date Received: 04/14/17 08:44

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	SM 2540C		1	349991	04/17/17 13:26	RRC	TAL PEN

Client Sample ID: SGWC-11

Lab Sample ID: 400-136455-13

Date Collected: 04/12/17 10:05

Matrix: Water

Date Received: 04/14/17 08:44

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	300.0		1	350367	04/19/17 15:20	KH1	TAL PEN
Total Recoverable	Prep	3005A			350105	04/17/17 16:04	DRE	TAL PEN
Total Recoverable	Analysis	6020		5	350346	04/18/17 16:17	DRE	TAL PEN
Total/NA	Prep	7470A			351066	04/24/17 16:40	JAP	TAL PEN
Total/NA	Analysis	7470A		1	351589	04/27/17 12:15	JAP	TAL PEN
Total/NA	Analysis	SM 2540C		1	349991	04/17/17 13:26	RRC	TAL PEN

Client Sample ID: FD-2(AP)

Lab Sample ID: 400-136455-14

Date Collected: 04/12/17 00:00

Matrix: Water

Date Received: 04/14/17 08:44

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	300.0		1	350367	04/19/17 16:28	KH1	TAL PEN
Total Recoverable	Prep	3005A			350105	04/17/17 16:04	DRE	TAL PEN
Total Recoverable	Analysis	6020		5	350346	04/18/17 16:22	DRE	TAL PEN
Total/NA	Prep	7470A			351066	04/24/17 16:40	JAP	TAL PEN
Total/NA	Analysis	7470A		1	351589	04/27/17 12:17	JAP	TAL PEN
Total/NA	Analysis	SM 2540C		1	349991	04/17/17 13:26	RRC	TAL PEN

Client Sample ID: SGWC-14

Lab Sample ID: 400-136455-15

Date Collected: 04/12/17 14:15

Matrix: Water

Date Received: 04/14/17 08:44

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	300.0		1	350367	04/19/17 16:51	KH1	TAL PEN
Total/NA	Analysis	300.0		5	350605	04/20/17 17:29	KH1	TAL PEN
Total Recoverable	Prep	3005A			350105	04/17/17 16:04	DRE	TAL PEN
Total Recoverable	Analysis	6020		5	350346	04/18/17 16:26	DRE	TAL PEN
Total/NA	Prep	7470A			351066	04/24/17 16:40	JAP	TAL PEN
Total/NA	Analysis	7470A		1	351589	04/27/17 12:18	JAP	TAL PEN
Total/NA	Analysis	SM 2540C		1	349991	04/17/17 13:26	RRC	TAL PEN

Lab Chronicle

Client: Southern Company
Project/Site: CCR - Plant Scherer

TestAmerica Job ID: 400-136455-1
SDG: Ash Pond

Client Sample ID: SGWC-10

Lab Sample ID: 400-136455-16

Date Collected: 04/12/17 11:10

Matrix: Water

Date Received: 04/14/17 08:44

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	300.0		1	350367	04/19/17 17:14	KH1	TAL PEN
Total Recoverable	Prep	3005A			350105	04/17/17 16:04	DRE	TAL PEN
Total Recoverable	Analysis	6020		5	350346	04/18/17 16:31	DRE	TAL PEN
Total/NA	Prep	7470A			351066	04/24/17 16:40	JAP	TAL PEN
Total/NA	Analysis	7470A		1	351589	04/27/17 12:20	JAP	TAL PEN
Total/NA	Analysis	SM 2540C		1	349991	04/17/17 13:26	RRC	TAL PEN

Client Sample ID: FB-2(AP)

Lab Sample ID: 400-136455-17

Date Collected: 04/12/17 10:10

Matrix: Water

Date Received: 04/14/17 08:44

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	300.0		1	350367	04/19/17 17:37	KH1	TAL PEN
Total Recoverable	Prep	3005A			350105	04/17/17 16:04	DRE	TAL PEN
Total Recoverable	Analysis	6020		5	350346	04/18/17 16:35	DRE	TAL PEN
Total/NA	Prep	7470A			351066	04/24/17 16:40	JAP	TAL PEN
Total/NA	Analysis	7470A		1	351589	04/27/17 12:22	JAP	TAL PEN
Total/NA	Analysis	SM 2540C		1	349991	04/17/17 13:26	RRC	TAL PEN

Client Sample ID: SGWC-8

Lab Sample ID: 400-136455-18

Date Collected: 04/12/17 09:15

Matrix: Water

Date Received: 04/14/17 08:44

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	300.0		1	350367	04/19/17 17:59	KH1	TAL PEN
Total/NA	Analysis	300.0		5	350605	04/20/17 17:52	KH1	TAL PEN
Total Recoverable	Prep	3005A			350105	04/17/17 16:04	DRE	TAL PEN
Total Recoverable	Analysis	6020		5	350346	04/18/17 16:40	DRE	TAL PEN
Total/NA	Prep	7470A			351066	04/24/17 16:40	JAP	TAL PEN
Total/NA	Analysis	7470A		1	351589	04/27/17 12:55	JAP	TAL PEN
Total/NA	Analysis	SM 2540C		1	349991	04/17/17 13:26	RRC	TAL PEN

Client Sample ID: FB-1(AP)

Lab Sample ID: 400-136455-19

Date Collected: 04/12/17 09:00

Matrix: Water

Date Received: 04/14/17 08:44

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	300.0		1	350367	04/19/17 18:22	KH1	TAL PEN
Total Recoverable	Prep	3005A			350111	04/17/17 16:17	DRE	TAL PEN
Total Recoverable	Analysis	6020		5	350346	04/18/17 16:58	DRE	TAL PEN
Total/NA	Prep	7470A			351066	04/24/17 16:40	JAP	TAL PEN
Total/NA	Analysis	7470A		1	351589	04/27/17 12:57	JAP	TAL PEN

TestAmerica Pensacola

Lab Chronicle

Client: Southern Company
Project/Site: CCR - Plant Scherer

TestAmerica Job ID: 400-136455-1
SDG: Ash Pond

Client Sample ID: FB-1(AP)

Lab Sample ID: 400-136455-19

Date Collected: 04/12/17 09:00

Matrix: Water

Date Received: 04/14/17 08:44

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	SM 2540C		1	349991	04/17/17 13:26	RRC	TAL PEN

Client Sample ID: SGWC-6

Lab Sample ID: 400-136455-20

Date Collected: 04/12/17 10:01

Matrix: Water

Date Received: 04/14/17 08:44

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	300.0		1	350367	04/19/17 19:08	KH1	TAL PEN
Total Recoverable	Prep	3005A			350111	04/17/17 16:17	DRE	TAL PEN
Total Recoverable	Analysis	6020		5	350346	04/18/17 17:02	DRE	TAL PEN
Total/NA	Prep	7470A			351066	04/24/17 16:40	JAP	TAL PEN
Total/NA	Analysis	7470A		1	351589	04/27/17 12:58	JAP	TAL PEN
Total/NA	Analysis	SM 2540C		1	349991	04/17/17 13:26	RRC	TAL PEN

Client Sample ID: SGWC-7

Lab Sample ID: 400-136455-21

Date Collected: 04/12/17 12:11

Matrix: Water

Date Received: 04/14/17 08:44

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	300.0		1	350367	04/19/17 19:31	KH1	TAL PEN
Total Recoverable	Prep	3005A			350111	04/17/17 16:17	DRE	TAL PEN
Total Recoverable	Analysis	6020		5	350346	04/18/17 17:43	DRE	TAL PEN
Total Recoverable	Prep	3005A	RA		350111	04/17/17 16:17	DRE	TAL PEN
Total Recoverable	Analysis	6020	RA	5	351496	04/26/17 14:42	DRE	TAL PEN
Total/NA	Prep	7470A			351133	04/25/17 08:56	JAP	TAL PEN
Total/NA	Analysis	7470A		1	351428	04/26/17 13:44	JAP	TAL PEN
Total/NA	Analysis	SM 2540C		1	349991	04/17/17 13:26	RRC	TAL PEN

Client Sample ID: SGWC-15

Lab Sample ID: 400-136455-22

Date Collected: 04/12/17 15:11

Matrix: Water

Date Received: 04/14/17 08:44

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	300.0		1	350367	04/19/17 19:54	KH1	TAL PEN
Total/NA	Analysis	300.0		5	350605	04/20/17 18:15	KH1	TAL PEN
Total Recoverable	Prep	3005A			350111	04/17/17 16:17	DRE	TAL PEN
Total Recoverable	Analysis	6020		5	350346	04/18/17 17:47	DRE	TAL PEN
Total Recoverable	Prep	3005A	RA		350111	04/17/17 16:17	DRE	TAL PEN
Total Recoverable	Analysis	6020	RA	5	351496	04/26/17 14:46	DRE	TAL PEN
Total/NA	Prep	7470A			351133	04/25/17 08:56	JAP	TAL PEN
Total/NA	Analysis	7470A		1	351428	04/26/17 13:46	JAP	TAL PEN
Total/NA	Analysis	SM 2540C		1	349991	04/17/17 13:26	RRC	TAL PEN

TestAmerica Pensacola

Lab Chronicle

Client: Southern Company
Project/Site: CCR - Plant Scherer

TestAmerica Job ID: 400-136455-1
SDG: Ash Pond

Client Sample ID: SGWC-9

Lab Sample ID: 400-136455-23

Date Collected: 04/13/17 12:20

Matrix: Water

Date Received: 04/15/17 08:25

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	300.0		1	350367	04/19/17 21:02	KH1	TAL PEN
Total/NA	Analysis	300.0		10	350605	04/20/17 19:23	KH1	TAL PEN
Total Recoverable	Prep	3005A			350111	04/17/17 16:17	DRE	TAL PEN
Total Recoverable	Analysis	6020		5	350346	04/18/17 17:52	DRE	TAL PEN
Total Recoverable	Prep	3005A	RA		350111	04/17/17 16:17	DRE	TAL PEN
Total Recoverable	Analysis	6020	RA	5	351496	04/26/17 14:51	DRE	TAL PEN
Total/NA	Prep	7470A			351133	04/25/17 08:56	JAP	TAL PEN
Total/NA	Analysis	7470A		1	351428	04/26/17 13:48	JAP	TAL PEN
Total/NA	Analysis	SM 2540C		1	350175	04/18/17 09:42	RRC	TAL PEN

Client Sample ID: SGWC-16

Lab Sample ID: 400-136455-24

Date Collected: 04/13/17 09:40

Matrix: Water

Date Received: 04/15/17 08:25

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	300.0		1	350367	04/19/17 21:25	KH1	TAL PEN
Total Recoverable	Prep	3005A			350111	04/17/17 16:17	DRE	TAL PEN
Total Recoverable	Analysis	6020		5	350346	04/18/17 17:56	DRE	TAL PEN
Total Recoverable	Prep	3005A	RA		350111	04/17/17 16:17	DRE	TAL PEN
Total Recoverable	Analysis	6020	RA	5	351496	04/26/17 14:55	DRE	TAL PEN
Total/NA	Prep	7470A			351133	04/25/17 08:56	JAP	TAL PEN
Total/NA	Analysis	7470A		1	351428	04/26/17 13:49	JAP	TAL PEN
Total/NA	Analysis	SM 2540C		1	350175	04/18/17 09:42	RRC	TAL PEN

Client Sample ID: FD-3(AP)

Lab Sample ID: 400-136455-25

Date Collected: 04/13/17 00:00

Matrix: Water

Date Received: 04/15/17 08:25

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	300.0		1	350367	04/19/17 21:48	KH1	TAL PEN
Total Recoverable	Prep	3005A			350111	04/17/17 16:17	DRE	TAL PEN
Total Recoverable	Analysis	6020		5	350346	04/18/17 18:01	DRE	TAL PEN
Total Recoverable	Prep	3005A	RA		350111	04/17/17 16:17	DRE	TAL PEN
Total Recoverable	Analysis	6020	RA	5	351496	04/26/17 14:59	DRE	TAL PEN
Total/NA	Prep	7470A			351133	04/25/17 08:56	JAP	TAL PEN
Total/NA	Analysis	7470A		1	351428	04/26/17 13:51	JAP	TAL PEN
Total/NA	Analysis	SM 2540C		1	349991	04/17/17 13:26	RRC	TAL PEN

Lab Chronicle

Client: Southern Company
Project/Site: CCR - Plant Scherer

TestAmerica Job ID: 400-136455-1
SDG: Ash Pond

Client Sample ID: SGWC-17

Lab Sample ID: 400-136455-26

Date Collected: 04/13/17 11:30

Matrix: Water

Date Received: 04/15/17 08:25

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	300.0		1	350367	04/19/17 22:11	KH1	TAL PEN
Total/NA	Analysis	300.0		5	350605	04/20/17 19:46	KH1	TAL PEN
Total Recoverable	Prep	3005A			350111	04/17/17 16:17	DRE	TAL PEN
Total Recoverable	Analysis	6020		5	350346	04/18/17 18:05	DRE	TAL PEN
Total Recoverable	Prep	3005A	RA		350111	04/17/17 16:17	DRE	TAL PEN
Total Recoverable	Analysis	6020	RA	5	351496	04/26/17 15:04	DRE	TAL PEN
Total/NA	Prep	7470A			351133	04/25/17 08:56	JAP	TAL PEN
Total/NA	Analysis	7470A		1	351428	04/26/17 13:53	JAP	TAL PEN
Total/NA	Analysis	SM 2540C		1	350175	04/18/17 09:42	RRC	TAL PEN

Client Sample ID: SGWC-18

Lab Sample ID: 400-136455-27

Date Collected: 04/13/17 13:30

Matrix: Water

Date Received: 04/15/17 08:25

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	300.0		1	350367	04/19/17 22:33	KH1	TAL PEN
Total/NA	Analysis	300.0		20	350605	04/20/17 20:09	KH1	TAL PEN
Total Recoverable	Prep	3005A			350111	04/17/17 16:17	DRE	TAL PEN
Total Recoverable	Analysis	6020		5	350346	04/18/17 18:32	DRE	TAL PEN
Total Recoverable	Prep	3005A	RA		350111	04/17/17 16:17	DRE	TAL PEN
Total Recoverable	Analysis	6020	RA	5	351496	04/26/17 15:26	DRE	TAL PEN
Total Recoverable	Prep	3005A	DL		350111	04/17/17 16:17	DRE	TAL PEN
Total Recoverable	Analysis	6020	DL	25	351496	04/26/17 15:31	DRE	TAL PEN
Total/NA	Prep	7470A			351133	04/25/17 08:56	JAP	TAL PEN
Total/NA	Analysis	7470A		1	351428	04/26/17 13:54	JAP	TAL PEN
Total/NA	Analysis	SM 2540C		1	350175	04/18/17 09:42	RRC	TAL PEN

Client Sample ID: SGWC-19

Lab Sample ID: 400-136455-28

Date Collected: 04/13/17 13:40

Matrix: Water

Date Received: 04/15/17 08:25

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	300.0		1	350367	04/19/17 22:56	KH1	TAL PEN
Total/NA	Analysis	300.0		5	350605	04/20/17 20:32	KH1	TAL PEN
Total Recoverable	Prep	3005A			350111	04/17/17 16:17	DRE	TAL PEN
Total Recoverable	Analysis	6020		5	350346	04/18/17 18:37	DRE	TAL PEN
Total Recoverable	Prep	3005A	RA		350111	04/17/17 16:17	DRE	TAL PEN
Total Recoverable	Analysis	6020	RA	5	351496	04/26/17 15:35	DRE	TAL PEN
Total Recoverable	Prep	3005A	DL		350111	04/17/17 16:17	DRE	TAL PEN
Total Recoverable	Analysis	6020	DL	25	351496	04/26/17 16:07	DRE	TAL PEN
Total/NA	Prep	7470A			351133	04/25/17 08:56	JAP	TAL PEN
Total/NA	Analysis	7470A		1	351428	04/26/17 13:56	JAP	TAL PEN

TestAmerica Pensacola

Lab Chronicle

Client: Southern Company
Project/Site: CCR - Plant Scherer

TestAmerica Job ID: 400-136455-1
SDG: Ash Pond

Client Sample ID: SGWC-19

Lab Sample ID: 400-136455-28

Date Collected: 04/13/17 13:40

Matrix: Water

Date Received: 04/15/17 08:25

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	SM 2540C		1	350175	04/18/17 09:42	RRC	TAL PEN

Client Sample ID: SGWC-20

Lab Sample ID: 400-136455-29

Date Collected: 04/13/17 11:35

Matrix: Water

Date Received: 04/15/17 08:25

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	300.0		1	350529	04/20/17 00:27	KH1	TAL PEN
Total/NA	Analysis	300.0		10	350804	04/21/17 19:09	TAJ	TAL PEN
Total Recoverable	Prep	3005A			350111	04/17/17 16:17	DRE	TAL PEN
Total Recoverable	Analysis	6020		5	350346	04/18/17 18:41	DRE	TAL PEN
Total Recoverable	Prep	3005A	RA		350111	04/17/17 16:17	DRE	TAL PEN
Total Recoverable	Analysis	6020	RA	5	351496	04/26/17 15:40	DRE	TAL PEN
Total Recoverable	Prep	3005A	DL		350111	04/17/17 16:17	DRE	TAL PEN
Total Recoverable	Analysis	6020	DL	25	351496	04/26/17 16:34	DRE	TAL PEN
Total/NA	Prep	7470A			351133	04/25/17 08:56	JAP	TAL PEN
Total/NA	Analysis	7470A		1	351428	04/26/17 13:58	JAP	TAL PEN
Total/NA	Analysis	SM 2540C		1	350175	04/18/17 09:42	RRC	TAL PEN

Client Sample ID: SGWC-21

Lab Sample ID: 400-136455-30

Date Collected: 04/13/17 09:58

Matrix: Water

Date Received: 04/15/17 08:25

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	300.0		1	350529	04/20/17 02:22	KH1	TAL PEN
Total/NA	Analysis	300.0		5	350605	04/20/17 22:03	KH1	TAL PEN
Total Recoverable	Prep	3005A			350111	04/17/17 16:17	DRE	TAL PEN
Total Recoverable	Analysis	6020		5	350346	04/18/17 18:46	DRE	TAL PEN
Total Recoverable	Prep	3005A	RA		350111	04/17/17 16:17	DRE	TAL PEN
Total Recoverable	Analysis	6020	RA	5	351496	04/26/17 15:45	DRE	TAL PEN
Total/NA	Prep	7470A			351133	04/25/17 08:56	JAP	TAL PEN
Total/NA	Analysis	7470A		1	351428	04/26/17 14:11	JAP	TAL PEN
Total/NA	Analysis	SM 2540C		1	350175	04/18/17 09:42	RRC	TAL PEN

Client Sample ID: SGWC-22

Lab Sample ID: 400-136455-31

Date Collected: 04/13/17 10:25

Matrix: Water

Date Received: 04/15/17 08:25

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	300.0		1	350529	04/20/17 02:44	KH1	TAL PEN
Total/NA	Analysis	300.0		5	350605	04/20/17 21:17	KH1	TAL PEN
Total Recoverable	Prep	3005A			350111	04/17/17 16:17	DRE	TAL PEN

TestAmerica Pensacola

Lab Chronicle

Client: Southern Company
Project/Site: CCR - Plant Scherer

TestAmerica Job ID: 400-136455-1
SDG: Ash Pond

Client Sample ID: SGWC-22

Lab Sample ID: 400-136455-31

Date Collected: 04/13/17 10:25

Matrix: Water

Date Received: 04/15/17 08:25

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total Recoverable	Analysis	6020		5	350346	04/18/17 18:50	DRE	TAL PEN
Total Recoverable	Prep	3005A	RA		350111	04/17/17 16:17	DRE	TAL PEN
Total Recoverable	Analysis	6020	RA	5	351496	04/26/17 15:49	DRE	TAL PEN
Total/NA	Prep	7470A			351133	04/25/17 08:56	JAP	TAL PEN
Total/NA	Analysis	7470A		1	351428	04/26/17 14:13	JAP	TAL PEN
Total/NA	Analysis	SM 2540C		1	350175	04/18/17 09:42	RRC	TAL PEN

Client Sample ID: SGWC-23

Lab Sample ID: 400-136455-32

Date Collected: 04/13/17 09:10

Matrix: Water

Date Received: 04/15/17 08:25

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	300.0		1	350529	04/20/17 03:07	KH1	TAL PEN
Total/NA	Analysis	300.0		5	350605	04/20/17 22:26	KH1	TAL PEN
Total Recoverable	Prep	3005A			350111	04/17/17 16:17	DRE	TAL PEN
Total Recoverable	Analysis	6020		5	350346	04/18/17 18:55	DRE	TAL PEN
Total Recoverable	Prep	3005A	RA		350111	04/17/17 16:17	DRE	TAL PEN
Total Recoverable	Analysis	6020	RA	5	351496	04/26/17 15:54	DRE	TAL PEN
Total/NA	Prep	7470A			351133	04/25/17 08:56	JAP	TAL PEN
Total/NA	Analysis	7470A		1	351428	04/26/17 14:14	JAP	TAL PEN
Total/NA	Analysis	SM 2540C		1	350175	04/18/17 09:42	RRC	TAL PEN

Client Sample ID: FB-3(AP)

Lab Sample ID: 400-136455-33

Date Collected: 04/13/17 09:00

Matrix: Water

Date Received: 04/15/17 08:25

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	300.0		1	350529	04/20/17 03:30	KH1	TAL PEN
Total Recoverable	Prep	3005A			350111	04/17/17 16:17	DRE	TAL PEN
Total Recoverable	Analysis	6020		5	350346	04/18/17 18:59	DRE	TAL PEN
Total Recoverable	Prep	3005A	RA		350111	04/17/17 16:17	DRE	TAL PEN
Total Recoverable	Analysis	6020	RA	5	351496	04/26/17 15:58	DRE	TAL PEN
Total/NA	Prep	7470A			351133	04/25/17 08:56	JAP	TAL PEN
Total/NA	Analysis	7470A		1	351428	04/26/17 14:16	JAP	TAL PEN
Total/NA	Analysis	SM 2540C		1	350175	04/18/17 09:42	RRC	TAL PEN

Client Sample ID: EB-3(AP)

Lab Sample ID: 400-136455-34

Date Collected: 04/13/17 14:00

Matrix: Water

Date Received: 04/15/17 08:25

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	300.0		1	350529	04/20/17 03:53	KH1	TAL PEN

TestAmerica Pensacola

Lab Chronicle

Client: Southern Company
Project/Site: CCR - Plant Scherer

TestAmerica Job ID: 400-136455-1
SDG: Ash Pond

Client Sample ID: EB-3(AP)

Lab Sample ID: 400-136455-34

Date Collected: 04/13/17 14:00

Matrix: Water

Date Received: 04/15/17 08:25

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total Recoverable	Prep	3005A			350111	04/17/17 16:17	DRE	TAL PEN
Total Recoverable	Analysis	6020		5	350346	04/18/17 19:04	DRE	TAL PEN
Total Recoverable	Prep	3005A	RA		350111	04/17/17 16:17	DRE	TAL PEN
Total Recoverable	Analysis	6020	RA	5	351496	04/26/17 16:03	DRE	TAL PEN
Total/NA	Prep	7470A			351133	04/25/17 08:56	JAP	TAL PEN
Total/NA	Analysis	7470A		1	351428	04/26/17 14:18	JAP	TAL PEN
Total/NA	Analysis	SM 2540C		1	350175	04/18/17 09:42	RRC	TAL PEN

Laboratory References:

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

QC Association Summary

Client: Southern Company
 Project/Site: CCR - Plant Scherer

TestAmerica Job ID: 400-136455-1
 SDG: Ash Pond

HPLC/IC

Analysis Batch: 350283

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-136455-1	SGWA-24	Total/NA	Water	300.0	
400-136455-2	SGWA-4	Total/NA	Water	300.0	
400-136455-3	SGWA-5	Total/NA	Water	300.0	
400-136455-4	EB-1(AP)	Total/NA	Water	300.0	
400-136455-5	SGWA-1	Total/NA	Water	300.0	
400-136455-6	SGWA-2	Total/NA	Water	300.0	
400-136455-7	FD-1(AP)	Total/NA	Water	300.0	
400-136455-8	SGWA-3	Total/NA	Water	300.0	
MB 400-350283/4	Method Blank	Total/NA	Water	300.0	
LCS 400-350283/5	Lab Control Sample	Total/NA	Water	300.0	
LCS 400-350283/6	Lab Control Sample Dup	Total/NA	Water	300.0	
400-136366-B-12 MS	Matrix Spike	Total/NA	Water	300.0	
400-136366-B-12 MSD	Matrix Spike Duplicate	Total/NA	Water	300.0	

Analysis Batch: 350367

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-136455-9	SGWA-25	Total/NA	Water	300.0	
400-136455-10	SGWC-13	Total/NA	Water	300.0	
400-136455-11	EB-2(AP)	Total/NA	Water	300.0	
400-136455-12	SGWC-12	Total/NA	Water	300.0	
400-136455-13	SGWC-11	Total/NA	Water	300.0	
400-136455-14	FD-2(AP)	Total/NA	Water	300.0	
400-136455-15	SGWC-14	Total/NA	Water	300.0	
400-136455-16	SGWC-10	Total/NA	Water	300.0	
400-136455-17	FB-2(AP)	Total/NA	Water	300.0	
400-136455-18	SGWC-8	Total/NA	Water	300.0	
400-136455-19	FB-1(AP)	Total/NA	Water	300.0	
400-136455-20	SGWC-6	Total/NA	Water	300.0	
400-136455-21	SGWC-7	Total/NA	Water	300.0	
400-136455-22	SGWC-15	Total/NA	Water	300.0	
400-136455-23	SGWC-9	Total/NA	Water	300.0	
400-136455-24	SGWC-16	Total/NA	Water	300.0	
400-136455-25	FD-3(AP)	Total/NA	Water	300.0	
400-136455-26	SGWC-17	Total/NA	Water	300.0	
400-136455-27	SGWC-18	Total/NA	Water	300.0	
400-136455-28	SGWC-19	Total/NA	Water	300.0	
MB 400-350367/4	Method Blank	Total/NA	Water	300.0	
LCS 400-350367/5	Lab Control Sample	Total/NA	Water	300.0	
LCS 400-350367/6	Lab Control Sample Dup	Total/NA	Water	300.0	
400-136455-9 MS	SGWA-25	Total/NA	Water	300.0	
400-136455-9 MSD	SGWA-25	Total/NA	Water	300.0	

Analysis Batch: 350529

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-136455-29	SGWC-20	Total/NA	Water	300.0	
400-136455-30	SGWC-21	Total/NA	Water	300.0	
400-136455-31	SGWC-22	Total/NA	Water	300.0	
400-136455-32	SGWC-23	Total/NA	Water	300.0	
400-136455-33	FB-3(AP)	Total/NA	Water	300.0	
400-136455-34	EB-3(AP)	Total/NA	Water	300.0	
MB 400-350529/34	Method Blank	Total/NA	Water	300.0	

TestAmerica Pensacola

QC Association Summary

Client: Southern Company
Project/Site: CCR - Plant Scherer

TestAmerica Job ID: 400-136455-1
SDG: Ash Pond

HPLC/IC (Continued)

Analysis Batch: 350529 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCS 400-350529/35	Lab Control Sample	Total/NA	Water	300.0	
LCSD 400-350529/36	Lab Control Sample Dup	Total/NA	Water	300.0	
400-136455-29 MS	SGWC-20	Total/NA	Water	300.0	
400-136455-29 MSD	SGWC-20	Total/NA	Water	300.0	

Analysis Batch: 350605

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-136455-10	SGWC-13	Total/NA	Water	300.0	
400-136455-15	SGWC-14	Total/NA	Water	300.0	
400-136455-18	SGWC-8	Total/NA	Water	300.0	
400-136455-22	SGWC-15	Total/NA	Water	300.0	
400-136455-23	SGWC-9	Total/NA	Water	300.0	
400-136455-26	SGWC-17	Total/NA	Water	300.0	
400-136455-27	SGWC-18	Total/NA	Water	300.0	
400-136455-28	SGWC-19	Total/NA	Water	300.0	
400-136455-30	SGWC-21	Total/NA	Water	300.0	
400-136455-31	SGWC-22	Total/NA	Water	300.0	
400-136455-32	SGWC-23	Total/NA	Water	300.0	
MB 400-350605/4	Method Blank	Total/NA	Water	300.0	
LCS 400-350605/5	Lab Control Sample	Total/NA	Water	300.0	
LCSD 400-350605/6	Lab Control Sample Dup	Total/NA	Water	300.0	
400-136455-10 MS	SGWC-13	Total/NA	Water	300.0	
400-136455-10 MSD	SGWC-13	Total/NA	Water	300.0	

Analysis Batch: 350804

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-136455-29	SGWC-20	Total/NA	Water	300.0	
MB 400-350804/23	Method Blank	Total/NA	Water	300.0	
LCS 400-350804/24	Lab Control Sample	Total/NA	Water	300.0	
LCSD 400-350804/25	Lab Control Sample Dup	Total/NA	Water	300.0	
400-136568-A-3 MS	Matrix Spike	Total/NA	Water	300.0	
400-136568-A-3 MSD	Matrix Spike Duplicate	Total/NA	Water	300.0	

Metals

Prep Batch: 349651

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-136455-1	SGWA-24	Total Recoverable	Water	3005A	
MB 400-349651/1-A ^5	Method Blank	Total Recoverable	Water	3005A	
LCS 400-349651/2-A	Lab Control Sample	Total Recoverable	Water	3005A	
400-136366-C-11-B MS ^5	Matrix Spike	Total Recoverable	Water	3005A	
400-136366-C-11-C MSD ^5	Matrix Spike Duplicate	Total Recoverable	Water	3005A	

Analysis Batch: 350033

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-136455-1	SGWA-24	Total Recoverable	Water	6020	349651
MB 400-349651/1-A ^5	Method Blank	Total Recoverable	Water	6020	349651
LCS 400-349651/2-A	Lab Control Sample	Total Recoverable	Water	6020	349651
400-136366-C-11-B MS ^5	Matrix Spike	Total Recoverable	Water	6020	349651
400-136366-C-11-C MSD ^5	Matrix Spike Duplicate	Total Recoverable	Water	6020	349651

TestAmerica Pensacola

QC Association Summary

Client: Southern Company
Project/Site: CCR - Plant Scherer

TestAmerica Job ID: 400-136455-1
SDG: Ash Pond

Metals (Continued)

Prep Batch: 350105

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-136455-2	SGWA-4	Total Recoverable	Water	3005A	
400-136455-3	SGWA-5	Total Recoverable	Water	3005A	
400-136455-4	EB-1(AP)	Total Recoverable	Water	3005A	
400-136455-5	SGWA-1	Total Recoverable	Water	3005A	
400-136455-6	SGWA-2	Total Recoverable	Water	3005A	
400-136455-7	FD-1(AP)	Total Recoverable	Water	3005A	
400-136455-8	SGWA-3	Total Recoverable	Water	3005A	
400-136455-9	SGWA-25	Total Recoverable	Water	3005A	
400-136455-10	SGWC-13	Total Recoverable	Water	3005A	
400-136455-11	EB-2(AP)	Total Recoverable	Water	3005A	
400-136455-12	SGWC-12	Total Recoverable	Water	3005A	
400-136455-13	SGWC-11	Total Recoverable	Water	3005A	
400-136455-14	FD-2(AP)	Total Recoverable	Water	3005A	
400-136455-15	SGWC-14	Total Recoverable	Water	3005A	
400-136455-16	SGWC-10	Total Recoverable	Water	3005A	
400-136455-17	FB-2(AP)	Total Recoverable	Water	3005A	
400-136455-18	SGWC-8	Total Recoverable	Water	3005A	
MB 400-350105/1-A ^5	Method Blank	Total Recoverable	Water	3005A	
LCS 400-350105/2-A	Lab Control Sample	Total Recoverable	Water	3005A	
400-136341-B-30-B MS ^5	Matrix Spike	Total Recoverable	Water	3005A	
400-136341-B-30-C MSD ^5	Matrix Spike Duplicate	Total Recoverable	Water	3005A	

Prep Batch: 350111

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-136455-19	FB-1(AP)	Total Recoverable	Water	3005A	
400-136455-20	SGWC-6	Total Recoverable	Water	3005A	
400-136455-21 - RA	SGWC-7	Total Recoverable	Water	3005A	
400-136455-21	SGWC-7	Total Recoverable	Water	3005A	
400-136455-22 - RA	SGWC-15	Total Recoverable	Water	3005A	
400-136455-22	SGWC-15	Total Recoverable	Water	3005A	
400-136455-23 - RA	SGWC-9	Total Recoverable	Water	3005A	
400-136455-23	SGWC-9	Total Recoverable	Water	3005A	
400-136455-24	SGWC-16	Total Recoverable	Water	3005A	
400-136455-24 - RA	SGWC-16	Total Recoverable	Water	3005A	
400-136455-25 - RA	FD-3(AP)	Total Recoverable	Water	3005A	
400-136455-25	FD-3(AP)	Total Recoverable	Water	3005A	
400-136455-26	SGWC-17	Total Recoverable	Water	3005A	
400-136455-26 - RA	SGWC-17	Total Recoverable	Water	3005A	
400-136455-27	SGWC-18	Total Recoverable	Water	3005A	
400-136455-27 - RA	SGWC-18	Total Recoverable	Water	3005A	
400-136455-27 - DL	SGWC-18	Total Recoverable	Water	3005A	
400-136455-28 - RA	SGWC-19	Total Recoverable	Water	3005A	
400-136455-28 - DL	SGWC-19	Total Recoverable	Water	3005A	
400-136455-28	SGWC-19	Total Recoverable	Water	3005A	
400-136455-29 - DL	SGWC-20	Total Recoverable	Water	3005A	
400-136455-29 - RA	SGWC-20	Total Recoverable	Water	3005A	
400-136455-29	SGWC-20	Total Recoverable	Water	3005A	
400-136455-30 - RA	SGWC-21	Total Recoverable	Water	3005A	
400-136455-30	SGWC-21	Total Recoverable	Water	3005A	
400-136455-31 - RA	SGWC-22	Total Recoverable	Water	3005A	
400-136455-31	SGWC-22	Total Recoverable	Water	3005A	

TestAmerica Pensacola

QC Association Summary

Client: Southern Company
 Project/Site: CCR - Plant Scherer

TestAmerica Job ID: 400-136455-1
 SDG: Ash Pond

Metals (Continued)

Prep Batch: 350111 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-136455-32	SGWC-23	Total Recoverable	Water	3005A	
400-136455-32 - RA	SGWC-23	Total Recoverable	Water	3005A	
400-136455-33	FB-3(AP)	Total Recoverable	Water	3005A	
400-136455-33 - RA	FB-3(AP)	Total Recoverable	Water	3005A	
400-136455-34	EB-3(AP)	Total Recoverable	Water	3005A	
400-136455-34 - RA	EB-3(AP)	Total Recoverable	Water	3005A	
MB 400-350111/1-A ^5	Method Blank	Total Recoverable	Water	3005A	
LCS 400-350111/2-A	Lab Control Sample	Total Recoverable	Water	3005A	
400-136455-20 MS	SGWC-6	Total Recoverable	Water	3005A	
400-136455-20 MSD	SGWC-6	Total Recoverable	Water	3005A	

Analysis Batch: 350346

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-136455-2	SGWA-4	Total Recoverable	Water	6020	350105
400-136455-3	SGWA-5	Total Recoverable	Water	6020	350105
400-136455-4	EB-1(AP)	Total Recoverable	Water	6020	350105
400-136455-5	SGWA-1	Total Recoverable	Water	6020	350105
400-136455-6	SGWA-2	Total Recoverable	Water	6020	350105
400-136455-7	FD-1(AP)	Total Recoverable	Water	6020	350105
400-136455-8	SGWA-3	Total Recoverable	Water	6020	350105
400-136455-9	SGWA-25	Total Recoverable	Water	6020	350105
400-136455-10	SGWC-13	Total Recoverable	Water	6020	350105
400-136455-11	EB-2(AP)	Total Recoverable	Water	6020	350105
400-136455-12	SGWC-12	Total Recoverable	Water	6020	350105
400-136455-13	SGWC-11	Total Recoverable	Water	6020	350105
400-136455-14	FD-2(AP)	Total Recoverable	Water	6020	350105
400-136455-15	SGWC-14	Total Recoverable	Water	6020	350105
400-136455-16	SGWC-10	Total Recoverable	Water	6020	350105
400-136455-17	FB-2(AP)	Total Recoverable	Water	6020	350105
400-136455-18	SGWC-8	Total Recoverable	Water	6020	350105
400-136455-19	FB-1(AP)	Total Recoverable	Water	6020	350111
400-136455-20	SGWC-6	Total Recoverable	Water	6020	350111
400-136455-21	SGWC-7	Total Recoverable	Water	6020	350111
400-136455-22	SGWC-15	Total Recoverable	Water	6020	350111
400-136455-23	SGWC-9	Total Recoverable	Water	6020	350111
400-136455-24	SGWC-16	Total Recoverable	Water	6020	350111
400-136455-25	FD-3(AP)	Total Recoverable	Water	6020	350111
400-136455-26	SGWC-17	Total Recoverable	Water	6020	350111
400-136455-27	SGWC-18	Total Recoverable	Water	6020	350111
400-136455-28	SGWC-19	Total Recoverable	Water	6020	350111
400-136455-29	SGWC-20	Total Recoverable	Water	6020	350111
400-136455-30	SGWC-21	Total Recoverable	Water	6020	350111
400-136455-31	SGWC-22	Total Recoverable	Water	6020	350111
400-136455-32	SGWC-23	Total Recoverable	Water	6020	350111
400-136455-33	FB-3(AP)	Total Recoverable	Water	6020	350111
400-136455-34	EB-3(AP)	Total Recoverable	Water	6020	350111
MB 400-350105/1-A ^5	Method Blank	Total Recoverable	Water	6020	350105
MB 400-350111/1-A ^5	Method Blank	Total Recoverable	Water	6020	350111
LCS 400-350105/2-A	Lab Control Sample	Total Recoverable	Water	6020	350105
LCS 400-350111/2-A	Lab Control Sample	Total Recoverable	Water	6020	350111
400-136341-B-30-B MS ^5	Matrix Spike	Total Recoverable	Water	6020	350105

TestAmerica Pensacola

QC Association Summary

Client: Southern Company
Project/Site: CCR - Plant Scherer

TestAmerica Job ID: 400-136455-1
SDG: Ash Pond

Metals (Continued)

Analysis Batch: 350346 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-136341-B-30-C MSD ^5	Matrix Spike Duplicate	Total Recoverable	Water	6020	350105
400-136455-20 MS	SGWC-6	Total Recoverable	Water	6020	350111
400-136455-20 MSD	SGWC-6	Total Recoverable	Water	6020	350111

Prep Batch: 351066

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-136455-1	SGWA-24	Total/NA	Water	7470A	
400-136455-2	SGWA-4	Total/NA	Water	7470A	
400-136455-3	SGWA-5	Total/NA	Water	7470A	
400-136455-4	EB-1(AP)	Total/NA	Water	7470A	
400-136455-5	SGWA-1	Total/NA	Water	7470A	
400-136455-6	SGWA-2	Total/NA	Water	7470A	
400-136455-7	FD-1(AP)	Total/NA	Water	7470A	
400-136455-8	SGWA-3	Total/NA	Water	7470A	
400-136455-9	SGWA-25	Total/NA	Water	7470A	
400-136455-10	SGWC-13	Total/NA	Water	7470A	
400-136455-11	EB-2(AP)	Total/NA	Water	7470A	
400-136455-12	SGWC-12	Total/NA	Water	7470A	
400-136455-13	SGWC-11	Total/NA	Water	7470A	
400-136455-14	FD-2(AP)	Total/NA	Water	7470A	
400-136455-15	SGWC-14	Total/NA	Water	7470A	
400-136455-16	SGWC-10	Total/NA	Water	7470A	
400-136455-17	FB-2(AP)	Total/NA	Water	7470A	
400-136455-18	SGWC-8	Total/NA	Water	7470A	
400-136455-19	FB-1(AP)	Total/NA	Water	7470A	
400-136455-20	SGWC-6	Total/NA	Water	7470A	
MB 400-351066/14-A	Method Blank	Total/NA	Water	7470A	
LCS 400-351066/15-A	Lab Control Sample	Total/NA	Water	7470A	
400-136455-1 MS	SGWA-24	Total/NA	Water	7470A	
400-136455-1 MSD	SGWA-24	Total/NA	Water	7470A	

Prep Batch: 351133

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-136455-21	SGWC-7	Total/NA	Water	7470A	
400-136455-22	SGWC-15	Total/NA	Water	7470A	
400-136455-23	SGWC-9	Total/NA	Water	7470A	
400-136455-24	SGWC-16	Total/NA	Water	7470A	
400-136455-25	FD-3(AP)	Total/NA	Water	7470A	
400-136455-26	SGWC-17	Total/NA	Water	7470A	
400-136455-27	SGWC-18	Total/NA	Water	7470A	
400-136455-28	SGWC-19	Total/NA	Water	7470A	
400-136455-29	SGWC-20	Total/NA	Water	7470A	
400-136455-30	SGWC-21	Total/NA	Water	7470A	
400-136455-31	SGWC-22	Total/NA	Water	7470A	
400-136455-32	SGWC-23	Total/NA	Water	7470A	
400-136455-33	FB-3(AP)	Total/NA	Water	7470A	
400-136455-34	EB-3(AP)	Total/NA	Water	7470A	
MB 400-351133/14-A	Method Blank	Total/NA	Water	7470A	
LCS 400-351133/15-A	Lab Control Sample	Total/NA	Water	7470A	
400-136777-V-2-B MS	Matrix Spike	Total/NA	Water	7470A	
400-136777-V-2-C MSD	Matrix Spike Duplicate	Total/NA	Water	7470A	

TestAmerica Pensacola

QC Association Summary

Client: Southern Company
Project/Site: CCR - Plant Scherer

TestAmerica Job ID: 400-136455-1
SDG: Ash Pond

Analysis Batch: 351428

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-136455-21	SGWC-7	Total/NA	Water	7470A	351133
400-136455-22	SGWC-15	Total/NA	Water	7470A	351133
400-136455-23	SGWC-9	Total/NA	Water	7470A	351133
400-136455-24	SGWC-16	Total/NA	Water	7470A	351133
400-136455-25	FD-3(AP)	Total/NA	Water	7470A	351133
400-136455-26	SGWC-17	Total/NA	Water	7470A	351133
400-136455-27	SGWC-18	Total/NA	Water	7470A	351133
400-136455-28	SGWC-19	Total/NA	Water	7470A	351133
400-136455-29	SGWC-20	Total/NA	Water	7470A	351133
400-136455-30	SGWC-21	Total/NA	Water	7470A	351133
400-136455-31	SGWC-22	Total/NA	Water	7470A	351133
400-136455-32	SGWC-23	Total/NA	Water	7470A	351133
400-136455-33	FB-3(AP)	Total/NA	Water	7470A	351133
400-136455-34	EB-3(AP)	Total/NA	Water	7470A	351133
MB 400-351133/14-A	Method Blank	Total/NA	Water	7470A	351133
LCS 400-351133/15-A	Lab Control Sample	Total/NA	Water	7470A	351133
400-136777-V-2-B MS	Matrix Spike	Total/NA	Water	7470A	351133
400-136777-V-2-C MSD	Matrix Spike Duplicate	Total/NA	Water	7470A	351133

Analysis Batch: 351496

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-136455-21 - RA	SGWC-7	Total Recoverable	Water	6020	350111
400-136455-22 - RA	SGWC-15	Total Recoverable	Water	6020	350111
400-136455-23 - RA	SGWC-9	Total Recoverable	Water	6020	350111
400-136455-24 - RA	SGWC-16	Total Recoverable	Water	6020	350111
400-136455-25 - RA	FD-3(AP)	Total Recoverable	Water	6020	350111
400-136455-26 - RA	SGWC-17	Total Recoverable	Water	6020	350111
400-136455-27 - RA	SGWC-18	Total Recoverable	Water	6020	350111
400-136455-27 - DL	SGWC-18	Total Recoverable	Water	6020	350111
400-136455-28 - RA	SGWC-19	Total Recoverable	Water	6020	350111
400-136455-28 - DL	SGWC-19	Total Recoverable	Water	6020	350111
400-136455-29 - RA	SGWC-20	Total Recoverable	Water	6020	350111
400-136455-29 - DL	SGWC-20	Total Recoverable	Water	6020	350111
400-136455-30 - RA	SGWC-21	Total Recoverable	Water	6020	350111
400-136455-31 - RA	SGWC-22	Total Recoverable	Water	6020	350111
400-136455-32 - RA	SGWC-23	Total Recoverable	Water	6020	350111
400-136455-33 - RA	FB-3(AP)	Total Recoverable	Water	6020	350111
400-136455-34 - RA	EB-3(AP)	Total Recoverable	Water	6020	350111

Analysis Batch: 351589

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-136455-1	SGWA-24	Total/NA	Water	7470A	351066
400-136455-2	SGWA-4	Total/NA	Water	7470A	351066
400-136455-3	SGWA-5	Total/NA	Water	7470A	351066
400-136455-4	EB-1(AP)	Total/NA	Water	7470A	351066
400-136455-5	SGWA-1	Total/NA	Water	7470A	351066
400-136455-6	SGWA-2	Total/NA	Water	7470A	351066
400-136455-7	FD-1(AP)	Total/NA	Water	7470A	351066
400-136455-8	SGWA-3	Total/NA	Water	7470A	351066
400-136455-9	SGWA-25	Total/NA	Water	7470A	351066
400-136455-10	SGWC-13	Total/NA	Water	7470A	351066
400-136455-11	EB-2(AP)	Total/NA	Water	7470A	351066
400-136455-12	SGWC-12	Total/NA	Water	7470A	351066

TestAmerica Pensacola

QC Association Summary

Client: Southern Company
Project/Site: CCR - Plant Scherer

TestAmerica Job ID: 400-136455-1
SDG: Ash Pond

Metals (Continued)

Analysis Batch: 351589 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-136455-13	SGWC-11	Total/NA	Water	7470A	351066
400-136455-14	FD-2(AP)	Total/NA	Water	7470A	351066
400-136455-15	SGWC-14	Total/NA	Water	7470A	351066
400-136455-16	SGWC-10	Total/NA	Water	7470A	351066
400-136455-17	FB-2(AP)	Total/NA	Water	7470A	351066
400-136455-18	SGWC-8	Total/NA	Water	7470A	351066
400-136455-19	FB-1(AP)	Total/NA	Water	7470A	351066
400-136455-20	SGWC-6	Total/NA	Water	7470A	351066
MB 400-351066/14-A	Method Blank	Total/NA	Water	7470A	351066
LCS 400-351066/15-A	Lab Control Sample	Total/NA	Water	7470A	351066
400-136455-1 MS	SGWA-24	Total/NA	Water	7470A	351066
400-136455-1 MSD	SGWA-24	Total/NA	Water	7470A	351066

General Chemistry

Analysis Batch: 349918

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-136455-1	SGWA-24	Total/NA	Water	SM 2540C	
400-136455-2	SGWA-4	Total/NA	Water	SM 2540C	
400-136455-3	SGWA-5	Total/NA	Water	SM 2540C	
400-136455-4	EB-1(AP)	Total/NA	Water	SM 2540C	
400-136455-5	SGWA-1	Total/NA	Water	SM 2540C	
400-136455-6	SGWA-2	Total/NA	Water	SM 2540C	
400-136455-7	FD-1(AP)	Total/NA	Water	SM 2540C	
400-136455-8	SGWA-3	Total/NA	Water	SM 2540C	
400-136455-9	SGWA-25	Total/NA	Water	SM 2540C	
MB 400-349918/1	Method Blank	Total/NA	Water	SM 2540C	
LCS 400-349918/2	Lab Control Sample	Total/NA	Water	SM 2540C	
400-136455-1 DU	SGWA-24	Total/NA	Water	SM 2540C	

Analysis Batch: 349991

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-136455-10	SGWC-13	Total/NA	Water	SM 2540C	
400-136455-11	EB-2(AP)	Total/NA	Water	SM 2540C	
400-136455-12	SGWC-12	Total/NA	Water	SM 2540C	
400-136455-13	SGWC-11	Total/NA	Water	SM 2540C	
400-136455-14	FD-2(AP)	Total/NA	Water	SM 2540C	
400-136455-15	SGWC-14	Total/NA	Water	SM 2540C	
400-136455-16	SGWC-10	Total/NA	Water	SM 2540C	
400-136455-17	FB-2(AP)	Total/NA	Water	SM 2540C	
400-136455-18	SGWC-8	Total/NA	Water	SM 2540C	
400-136455-19	FB-1(AP)	Total/NA	Water	SM 2540C	
400-136455-20	SGWC-6	Total/NA	Water	SM 2540C	
400-136455-21	SGWC-7	Total/NA	Water	SM 2540C	
400-136455-22	SGWC-15	Total/NA	Water	SM 2540C	
400-136455-25	FD-3(AP)	Total/NA	Water	SM 2540C	
MB 400-349991/1	Method Blank	Total/NA	Water	SM 2540C	
LCS 400-349991/2	Lab Control Sample	Total/NA	Water	SM 2540C	
400-136455-15 DU	SGWC-14	Total/NA	Water	SM 2540C	

TestAmerica Pensacola

QC Association Summary

Client: Southern Company
Project/Site: CCR - Plant Scherer

TestAmerica Job ID: 400-136455-1
SDG: Ash Pond

General Chemistry (Continued)

Analysis Batch: 350175

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-136455-23	SGWC-9	Total/NA	Water	SM 2540C	
400-136455-24	SGWC-16	Total/NA	Water	SM 2540C	
400-136455-26	SGWC-17	Total/NA	Water	SM 2540C	
400-136455-27	SGWC-18	Total/NA	Water	SM 2540C	
400-136455-28	SGWC-19	Total/NA	Water	SM 2540C	
400-136455-29	SGWC-20	Total/NA	Water	SM 2540C	
400-136455-30	SGWC-21	Total/NA	Water	SM 2540C	
400-136455-31	SGWC-22	Total/NA	Water	SM 2540C	
400-136455-32	SGWC-23	Total/NA	Water	SM 2540C	
400-136455-33	FB-3(AP)	Total/NA	Water	SM 2540C	
400-136455-34	EB-3(AP)	Total/NA	Water	SM 2540C	
MB 400-350175/1	Method Blank	Total/NA	Water	SM 2540C	
LCS 400-350175/2	Lab Control Sample	Total/NA	Water	SM 2540C	
400-136455-24 DU	SGWC-16	Total/NA	Water	SM 2540C	

QC Sample Results

Client: Southern Company
Project/Site: CCR - Plant Scherer

TestAmerica Job ID: 400-136455-1
SDG: Ash Pond

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 400-350283/4
Matrix: Water
Analysis Batch: 350283

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<0.89		1.0	0.89	mg/L			04/18/17 14:41	1
Fluoride	<0.082		0.20	0.082	mg/L			04/18/17 14:41	1
Sulfate	<0.70		1.0	0.70	mg/L			04/18/17 14:41	1

Lab Sample ID: LCS 400-350283/5
Matrix: Water
Analysis Batch: 350283

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloride	10.0	9.80		mg/L		98	90 - 110
Fluoride	10.0	9.87		mg/L		99	90 - 110
Sulfate	10.0	9.42		mg/L		94	90 - 110

Lab Sample ID: LCSD 400-350283/6
Matrix: Water
Analysis Batch: 350283

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
Chloride	10.0	9.79		mg/L		98	90 - 110	0	15
Fluoride	10.0	9.86		mg/L		99	90 - 110	0	15
Sulfate	10.0	9.31		mg/L		93	90 - 110	1	15

Lab Sample ID: 400-136366-B-12 MS
Matrix: Water
Analysis Batch: 350283

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	92		100	183		mg/L		91	80 - 120
Fluoride	<0.82		100	99.6		mg/L		100	80 - 120
Sulfate	380		100	473		mg/L		96	80 - 120

Lab Sample ID: 400-136366-B-12 MSD
Matrix: Water
Analysis Batch: 350283

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	92		100	183		mg/L		92	80 - 120	0	20
Fluoride	<0.82		100	99.4		mg/L		99	80 - 120	0	20
Sulfate	380		100	476		mg/L		98	80 - 120	1	20

Lab Sample ID: MB 400-350367/4
Matrix: Water
Analysis Batch: 350367

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<0.89		1.0	0.89	mg/L			04/19/17 11:07	1
Fluoride	<0.082		0.20	0.082	mg/L			04/19/17 11:07	1
Sulfate	<0.70		1.0	0.70	mg/L			04/19/17 11:07	1

TestAmerica Pensacola

QC Sample Results

Client: Southern Company
Project/Site: CCR - Plant Scherer

TestAmerica Job ID: 400-136455-1
SDG: Ash Pond

Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: LCS 400-350367/5
Matrix: Water
Analysis Batch: 350367

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloride	10.0	9.84		mg/L		98	90 - 110
Fluoride	10.0	10.0		mg/L		100	90 - 110
Sulfate	10.0	9.33		mg/L		93	90 - 110

Lab Sample ID: LCSD 400-350367/6
Matrix: Water
Analysis Batch: 350367

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
Chloride	10.0	9.85		mg/L		99	90 - 110	0	15
Fluoride	10.0	9.99		mg/L		100	90 - 110	0	15
Sulfate	10.0	9.34		mg/L		93	90 - 110	0	15

Lab Sample ID: 400-136455-9 MS
Matrix: Water
Analysis Batch: 350367

Client Sample ID: SGWA-25
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloride	1.7		10.0	10.5		mg/L		88	80 - 120
Fluoride	<0.082		10.0	9.49		mg/L		95	80 - 120
Sulfate	<0.70		10.0	9.28		mg/L		93	80 - 120

Lab Sample ID: 400-136455-9 MSD
Matrix: Water
Analysis Batch: 350367

Client Sample ID: SGWA-25
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Chloride	1.7		10.0	10.9		mg/L		92	80 - 120	4	20
Fluoride	<0.082		10.0	9.78		mg/L		98	80 - 120	3	20
Sulfate	<0.70		10.0	9.64		mg/L		96	80 - 120	4	20

Lab Sample ID: MB 400-350529/34
Matrix: Water
Analysis Batch: 350529

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<0.89		1.0	0.89	mg/L			04/19/17 23:19	1
Fluoride	<0.082		0.20	0.082	mg/L			04/19/17 23:19	1
Sulfate	<0.70		1.0	0.70	mg/L			04/19/17 23:19	1

Lab Sample ID: LCS 400-350529/35
Matrix: Water
Analysis Batch: 350529

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloride	10.0	9.88		mg/L		99	90 - 110
Fluoride	10.0	10.2		mg/L		102	90 - 110
Sulfate	10.0	9.38		mg/L		94	90 - 110

TestAmerica Pensacola

QC Sample Results

Client: Southern Company
Project/Site: CCR - Plant Scherer

TestAmerica Job ID: 400-136455-1
SDG: Ash Pond

Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: LCSD 400-350529/36

Matrix: Water

Analysis Batch: 350529

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
Chloride	10.0	9.87		mg/L		99	90 - 110	0	15
Fluoride	10.0	10.2		mg/L		102	90 - 110	0	15
Sulfate	10.0	9.33		mg/L		93	90 - 110	1	15

Lab Sample ID: 400-136455-29 MS

Matrix: Water

Analysis Batch: 350529

Client Sample ID: SGWC-20

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Chloride	10		10.0	19.3		mg/L		91	80 - 120		
Fluoride	0.20		10.0	10.3		mg/L		101	80 - 120		
Sulfate	200	E	10.0	213	E 4	mg/L		98	80 - 120		

Lab Sample ID: 400-136455-29 MSD

Matrix: Water

Analysis Batch: 350529

Client Sample ID: SGWC-20

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Chloride	10		10.0	19.4		mg/L		92	80 - 120	0	20
Fluoride	0.20		10.0	10.4		mg/L		102	80 - 120	0	20
Sulfate	200	E	10.0	216	E 4	mg/L		127	80 - 120	1	20

Lab Sample ID: MB 400-350605/4

Matrix: Water

Analysis Batch: 350605

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<0.89		1.0	0.89	mg/L			04/20/17 12:15	1
Fluoride	<0.082		0.20	0.082	mg/L			04/20/17 12:15	1
Sulfate	<0.70		1.0	0.70	mg/L			04/20/17 12:15	1

Lab Sample ID: LCS 400-350605/5

Matrix: Water

Analysis Batch: 350605

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Chloride	10.0	9.87		mg/L		99	90 - 110		
Fluoride	10.0	10.1		mg/L		101	90 - 110		
Sulfate	10.0	9.34		mg/L		93	90 - 110		

Lab Sample ID: LCSD 400-350605/6

Matrix: Water

Analysis Batch: 350605

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
Chloride	10.0	9.88		mg/L		99	90 - 110	0	15
Fluoride	10.0	10.1		mg/L		101	90 - 110	0	15
Sulfate	10.0	9.34		mg/L		93	90 - 110	0	15

TestAmerica Pensacola

QC Sample Results

Client: Southern Company
Project/Site: CCR - Plant Scherer

TestAmerica Job ID: 400-136455-1
SDG: Ash Pond

Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: 400-136455-10 MS

Matrix: Water
Analysis Batch: 350605

Client Sample ID: SGWC-13
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloride	5.5		50.0	51.4		mg/L		92	80 - 120
Fluoride	<0.41		50.0	49.6		mg/L		99	80 - 120
Sulfate	70		50.0	117		mg/L		94	80 - 120

Lab Sample ID: 400-136455-10 MSD

Matrix: Water
Analysis Batch: 350605

Client Sample ID: SGWC-13
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Chloride	5.5		50.0	51.7		mg/L		92	80 - 120	1	20
Fluoride	<0.41		50.0	49.9		mg/L		100	80 - 120	1	20
Sulfate	70		50.0	118		mg/L		96	80 - 120	1	20

Lab Sample ID: MB 400-350804/23

Matrix: Water
Analysis Batch: 350804

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<0.89		1.0	0.89	mg/L			04/21/17 17:53	1
Fluoride	<0.082		0.20	0.082	mg/L			04/21/17 17:53	1
Sulfate	<0.70		1.0	0.70	mg/L			04/21/17 17:53	1

Lab Sample ID: LCS 400-350804/24

Matrix: Water
Analysis Batch: 350804

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloride	10.0	9.98		mg/L		100	90 - 110
Fluoride	10.0	10.4		mg/L		104	90 - 110
Sulfate	10.0	9.63		mg/L		96	90 - 110

Lab Sample ID: LCSD 400-350804/25

Matrix: Water
Analysis Batch: 350804

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
Chloride	10.0	9.97		mg/L		100	90 - 110	0	15
Fluoride	10.0	10.3		mg/L		103	90 - 110	0	15
Sulfate	10.0	9.59		mg/L		96	90 - 110	0	15

Lab Sample ID: 400-136568-A-3 MS

Matrix: Water
Analysis Batch: 350804

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	4.8	J	50.0	51.9		mg/L		94	80 - 120
Fluoride	<0.41		50.0	51.7		mg/L		103	80 - 120
Sulfate	150		50.0	199		mg/L		98	80 - 120

TestAmerica Pensacola

QC Sample Results

Client: Southern Company
Project/Site: CCR - Plant Scherer

TestAmerica Job ID: 400-136455-1
SDG: Ash Pond

Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: 400-136568-A-3 MSD
Matrix: Water
Analysis Batch: 350804

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	4.8	J	50.0	51.9		mg/L		94	80 - 120	0	20
Fluoride	<0.41		50.0	51.5		mg/L		103	80 - 120	0	20
Sulfate	150		50.0	199		mg/L		97	80 - 120	0	20

Method: 6020 - Metals (ICP/MS)

Lab Sample ID: MB 400-349651/1-A ^5
Matrix: Water
Analysis Batch: 350033

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 349651

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0010		0.0025	0.0010	mg/L		04/13/17 15:40	04/14/17 13:12	5
Arsenic	<0.00046		0.0013	0.00046	mg/L		04/13/17 15:40	04/14/17 13:12	5
Barium	<0.00049		0.0025	0.00049	mg/L		04/13/17 15:40	04/14/17 13:12	5
Beryllium	<0.00034		0.0025	0.00034	mg/L		04/13/17 15:40	04/14/17 13:12	5
Boron	<0.021		0.050	0.021	mg/L		04/13/17 15:40	04/14/17 13:12	5
Cadmium	<0.00034		0.0025	0.00034	mg/L		04/13/17 15:40	04/14/17 13:12	5
Calcium	<0.13		0.25	0.13	mg/L		04/13/17 15:40	04/14/17 13:12	5
Chromium	<0.0011		0.0025	0.0011	mg/L		04/13/17 15:40	04/14/17 13:12	5
Cobalt	<0.00040		0.0025	0.00040	mg/L		04/13/17 15:40	04/14/17 13:12	5
Lead	<0.00035		0.0013	0.00035	mg/L		04/13/17 15:40	04/14/17 13:12	5
Lithium	<0.0032		0.0050	0.0032	mg/L		04/13/17 15:40	04/14/17 13:12	5
Molybdenum	<0.00085		0.015	0.00085	mg/L		04/13/17 15:40	04/14/17 13:12	5
Selenium	<0.00024		0.0013	0.00024	mg/L		04/13/17 15:40	04/14/17 13:12	5
Thallium	<0.000085		0.00050	0.000085	mg/L		04/13/17 15:40	04/14/17 13:12	5

Lab Sample ID: LCS 400-349651/2-A
Matrix: Water
Analysis Batch: 350033

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 349651

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Antimony	0.0500	0.0569		mg/L		114	80 - 120
Arsenic	0.0500	0.0531		mg/L		106	80 - 120
Barium	0.0500	0.0485		mg/L		97	80 - 120
Beryllium	0.0500	0.0545		mg/L		109	80 - 120
Boron	0.100	0.100		mg/L		100	80 - 120
Cadmium	0.0500	0.0540		mg/L		108	80 - 120
Calcium	5.00	4.80		mg/L		96	80 - 120
Chromium	0.0500	0.0526		mg/L		105	80 - 120
Cobalt	0.0500	0.0513		mg/L		103	80 - 120
Lead	0.0500	0.0545		mg/L		109	80 - 120
Lithium	0.0500	0.0533		mg/L		107	80 - 120
Molybdenum	0.100	0.106		mg/L		106	80 - 120
Selenium	0.0500	0.0517		mg/L		103	80 - 120
Thallium	0.0100	0.0108		mg/L		108	80 - 120

TestAmerica Pensacola

QC Sample Results

Client: Southern Company
Project/Site: CCR - Plant Scherer

TestAmerica Job ID: 400-136455-1
SDG: Ash Pond

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

Lab Sample ID: 400-136366-C-11-B MS ^5

Matrix: Water

Analysis Batch: 350033

Client Sample ID: Matrix Spike

Prep Type: Total Recoverable

Prep Batch: 349651

Analyte	Sample	Sample Qualifier	Spike Added	MS MS		Unit	D	%Rec	%Rec.	
	Result			Result	Qualifier				Limits	Limits
Antimony	<0.0010		0.0500	0.0614		mg/L		123	75 - 125	
Arsenic	<0.00046		0.0500	0.0548		mg/L		110	75 - 125	
Barium	0.041		0.0500	0.0911		mg/L		100	75 - 125	
Beryllium	<0.00034		0.0500	0.0540		mg/L		108	75 - 125	
Boron	<0.021		0.100	0.110		mg/L		110	75 - 125	
Cadmium	<0.00034		0.0500	0.0545		mg/L		109	75 - 125	
Calcium	16		5.00	21.1		mg/L		99	75 - 125	
Chromium	0.010		0.0500	0.0636		mg/L		107	75 - 125	
Cobalt	<0.00040		0.0500	0.0524		mg/L		105	75 - 125	
Lead	<0.00035		0.0500	0.0533		mg/L		107	75 - 125	
Lithium	<0.0032		0.0500	0.0514		mg/L		103	75 - 125	
Molybdenum	0.0048	J	0.100	0.116		mg/L		111	75 - 125	
Selenium	0.0023		0.0500	0.0583		mg/L		112	75 - 125	
Thallium	<0.000085		0.0100	0.0107		mg/L		107	75 - 125	

Lab Sample ID: 400-136366-C-11-C MSD ^5

Matrix: Water

Analysis Batch: 350033

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total Recoverable

Prep Batch: 349651

Analyte	Sample	Sample Qualifier	Spike Added	MSD MSD		Unit	D	%Rec	%Rec.		RPD	
	Result			Result	Qualifier				Limits	Limits	RPD	Limit
Antimony	<0.0010		0.0500	0.0588		mg/L		118	75 - 125	4	20	
Arsenic	<0.00046		0.0500	0.0544		mg/L		109	75 - 125	1	20	
Barium	0.041		0.0500	0.0907		mg/L		99	75 - 125	0	20	
Beryllium	<0.00034		0.0500	0.0541		mg/L		108	75 - 125	0	20	
Boron	<0.021		0.100	0.106		mg/L		106	75 - 125	3	20	
Cadmium	<0.00034		0.0500	0.0532		mg/L		106	75 - 125	2	20	
Calcium	16		5.00	20.9		mg/L		93	75 - 125	1	20	
Chromium	0.010		0.0500	0.0647		mg/L		109	75 - 125	2	20	
Cobalt	<0.00040		0.0500	0.0528		mg/L		106	75 - 125	1	20	
Lead	<0.00035		0.0500	0.0542		mg/L		108	75 - 125	2	20	
Lithium	<0.0032		0.0500	0.0519		mg/L		104	75 - 125	1	20	
Molybdenum	0.0048	J	0.100	0.109		mg/L		105	75 - 125	6	20	
Selenium	0.0023		0.0500	0.0545		mg/L		104	75 - 125	7	20	
Thallium	<0.000085		0.0100	0.0109		mg/L		109	75 - 125	1	20	

Lab Sample ID: MB 400-350105/1-A ^5

Matrix: Water

Analysis Batch: 350346

Client Sample ID: Method Blank

Prep Type: Total Recoverable

Prep Batch: 350105

Analyte	MB MB		RL	MDL	Unit	D	Prepared		Analyzed		Dil Fac
	Result	Qualifier									
Antimony	<0.0010		0.0025	0.0010	mg/L		04/17/17 16:04	04/18/17 14:10		5	
Arsenic	<0.00046		0.0013	0.00046	mg/L		04/17/17 16:04	04/18/17 14:10		5	
Barium	<0.00049		0.0025	0.00049	mg/L		04/17/17 16:04	04/18/17 14:10		5	
Beryllium	<0.00034		0.0025	0.00034	mg/L		04/17/17 16:04	04/18/17 14:10		5	
Boron	<0.021		0.050	0.021	mg/L		04/17/17 16:04	04/18/17 14:10		5	
Cadmium	<0.00034		0.0025	0.00034	mg/L		04/17/17 16:04	04/18/17 14:10		5	
Calcium	<0.13		0.25	0.13	mg/L		04/17/17 16:04	04/18/17 14:10		5	
Chromium	<0.0011		0.0025	0.0011	mg/L		04/17/17 16:04	04/18/17 14:10		5	

TestAmerica Pensacola

QC Sample Results

Client: Southern Company
Project/Site: CCR - Plant Scherer

TestAmerica Job ID: 400-136455-1
SDG: Ash Pond

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

Lab Sample ID: MB 400-350105/1-A ^5
Matrix: Water
Analysis Batch: 350346

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 350105

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Cobalt	<0.00040		0.0025	0.00040	mg/L		04/17/17 16:04	04/18/17 14:10	5
Lead	<0.00035		0.0013	0.00035	mg/L		04/17/17 16:04	04/18/17 14:10	5
Lithium	<0.0032		0.0050	0.0032	mg/L		04/17/17 16:04	04/18/17 14:10	5
Molybdenum	<0.00085		0.015	0.00085	mg/L		04/17/17 16:04	04/18/17 14:10	5
Selenium	<0.00024		0.0013	0.00024	mg/L		04/17/17 16:04	04/18/17 14:10	5
Thallium	<0.000085		0.00050	0.000085	mg/L		04/17/17 16:04	04/18/17 14:10	5

Lab Sample ID: LCS 400-350105/2-A
Matrix: Water
Analysis Batch: 350346

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 350105

Analyte	Spike Added	LCS	LCS	Unit	D	%Rec	%Rec.	Limits
		Result	Qualifier					
Antimony	0.0500	0.0553		mg/L		111	80 - 120	
Arsenic	0.0500	0.0534		mg/L		107	80 - 120	
Barium	0.0500	0.0509		mg/L		102	80 - 120	
Beryllium	0.0500	0.0531		mg/L		106	80 - 120	
Boron	0.100	0.0939		mg/L		94	80 - 120	
Cadmium	0.0500	0.0523		mg/L		105	80 - 120	
Calcium	5.00	4.93		mg/L		99	80 - 120	
Chromium	0.0500	0.0530		mg/L		106	80 - 120	
Cobalt	0.0500	0.0527		mg/L		105	80 - 120	
Lead	0.0500	0.0507		mg/L		101	80 - 120	
Lithium	0.0500	0.0544		mg/L		109	80 - 120	
Molybdenum	0.100	0.104		mg/L		104	80 - 120	
Selenium	0.0500	0.0517		mg/L		103	80 - 120	
Thallium	0.0100	0.0106		mg/L		106	80 - 120	

Lab Sample ID: 400-136341-B-30-B MS ^5
Matrix: Water
Analysis Batch: 350346

Client Sample ID: Matrix Spike
Prep Type: Total Recoverable
Prep Batch: 350105

Analyte	Sample	Sample	Spike Added	MS	MS	Unit	D	%Rec	%Rec.	Limits
	Result	Qualifier		Result	Qualifier					
Antimony	<0.0010		0.0500	0.0596		mg/L		119	75 - 125	
Arsenic	0.0010	J	0.0500	0.0559		mg/L		110	75 - 125	
Barium	0.012		0.0500	0.0618		mg/L		100	75 - 125	
Beryllium	<0.00034		0.0500	0.0538		mg/L		108	75 - 125	
Boron	<0.021		0.100	0.111		mg/L		111	75 - 125	
Cadmium	<0.00034		0.0500	0.0523		mg/L		105	75 - 125	
Calcium	13		5.00	18.1		mg/L		105	75 - 125	
Chromium	0.011		0.0500	0.0638		mg/L		106	75 - 125	
Cobalt	<0.00040		0.0500	0.0532		mg/L		106	75 - 125	
Lead	<0.00035		0.0500	0.0504		mg/L		101	75 - 125	
Lithium	<0.0032		0.0500	0.0522		mg/L		104	75 - 125	
Molybdenum	0.0035	J	0.100	0.110		mg/L		106	75 - 125	
Selenium	0.0027		0.0500	0.0583		mg/L		111	75 - 125	
Thallium	<0.000085		0.0100	0.0106		mg/L		106	75 - 125	

TestAmerica Pensacola

QC Sample Results

Client: Southern Company
Project/Site: CCR - Plant Scherer

TestAmerica Job ID: 400-136455-1
SDG: Ash Pond

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

Lab Sample ID: 400-136341-B-30-C MSD ^5

Matrix: Water

Analysis Batch: 350346

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total Recoverable

Prep Batch: 350105

Analyte	Sample	Sample Qualifier	Spike Added	MSD		Unit	D	%Rec	%Rec.		RPD	Limit
	Result			Qualifier	Result				Qualifier	Limits		
Antimony	<0.0010		0.0500	0.0564		mg/L		113	75 - 125	5	20	
Arsenic	0.0010	J	0.0500	0.0547		mg/L		107	75 - 125	2	20	
Barium	0.012		0.0500	0.0635		mg/L		104	75 - 125	3	20	
Beryllium	<0.00034		0.0500	0.0527		mg/L		105	75 - 125	2	20	
Boron	<0.021		0.100	0.102		mg/L		102	75 - 125	8	20	
Cadmium	<0.00034		0.0500	0.0523		mg/L		105	75 - 125	0	20	
Calcium	13		5.00	17.8		mg/L		99	75 - 125	2	20	
Chromium	0.011		0.0500	0.0646		mg/L		108	75 - 125	1	20	
Cobalt	<0.00040		0.0500	0.0533		mg/L		107	75 - 125	0	20	
Lead	<0.00035		0.0500	0.0494		mg/L		99	75 - 125	2	20	
Lithium	<0.0032		0.0500	0.0520		mg/L		104	75 - 125	0	20	
Molybdenum	0.0035	J	0.100	0.106		mg/L		102	75 - 125	3	20	
Selenium	0.0027		0.0500	0.0528		mg/L		100	75 - 125	10	20	
Thallium	<0.000085		0.0100	0.0103		mg/L		103	75 - 125	3	20	

Lab Sample ID: MB 400-350111/1-A ^5

Matrix: Water

Analysis Batch: 350346

Client Sample ID: Method Blank

Prep Type: Total Recoverable

Prep Batch: 350111

Analyte	MB MB		RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Antimony	<0.0010		0.0025	0.0010	mg/L		04/17/17 16:17	04/18/17 16:49	5
Arsenic	<0.00046		0.0013	0.00046	mg/L		04/17/17 16:17	04/18/17 16:49	5
Barium	<0.00049		0.0025	0.00049	mg/L		04/17/17 16:17	04/18/17 16:49	5
Beryllium	<0.00034		0.0025	0.00034	mg/L		04/17/17 16:17	04/18/17 16:49	5
Boron	<0.021		0.050	0.021	mg/L		04/17/17 16:17	04/18/17 16:49	5
Cadmium	<0.00034		0.0025	0.00034	mg/L		04/17/17 16:17	04/18/17 16:49	5
Calcium	<0.13		0.25	0.13	mg/L		04/17/17 16:17	04/18/17 16:49	5
Chromium	<0.0011		0.0025	0.0011	mg/L		04/17/17 16:17	04/18/17 16:49	5
Cobalt	<0.00040		0.0025	0.00040	mg/L		04/17/17 16:17	04/18/17 16:49	5
Lead	<0.00035		0.0013	0.00035	mg/L		04/17/17 16:17	04/18/17 16:49	5
Lithium	<0.0032		0.0050	0.0032	mg/L		04/17/17 16:17	04/18/17 16:49	5
Molybdenum	<0.00085		0.015	0.00085	mg/L		04/17/17 16:17	04/18/17 16:49	5
Selenium	<0.00024		0.0013	0.00024	mg/L		04/17/17 16:17	04/18/17 16:49	5
Thallium	<0.000085		0.00050	0.000085	mg/L		04/17/17 16:17	04/18/17 16:49	5

Lab Sample ID: LCS 400-350111/2-A

Matrix: Water

Analysis Batch: 350346

Client Sample ID: Lab Control Sample

Prep Type: Total Recoverable

Prep Batch: 350111

Analyte	Spike Added	LCS LCS		Unit	D	%Rec	%Rec.	
		Result	Qualifier				Limits	RPD
Antimony	0.0500	0.0557		mg/L		111	80 - 120	
Arsenic	0.0500	0.0549		mg/L		110	80 - 120	
Barium	0.0500	0.0522		mg/L		104	80 - 120	
Beryllium	0.0500	0.0547		mg/L		109	80 - 120	
Boron	0.100	0.0994		mg/L		99	80 - 120	
Cadmium	0.0500	0.0530		mg/L		106	80 - 120	
Calcium	5.00	5.14		mg/L		103	80 - 120	
Chromium	0.0500	0.0539		mg/L		108	80 - 120	

TestAmerica Pensacola

QC Sample Results

Client: Southern Company
Project/Site: CCR - Plant Scherer

TestAmerica Job ID: 400-136455-1
SDG: Ash Pond

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

Lab Sample ID: LCS 400-350111/2-A
Matrix: Water
Analysis Batch: 350346

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 350111

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Cobalt	0.0500	0.0527		mg/L		105	80 - 120
Lead	0.0500	0.0504		mg/L		101	80 - 120
Lithium	0.0500	0.0541		mg/L		108	80 - 120
Molybdenum	0.100	0.106		mg/L		106	80 - 120
Selenium	0.0500	0.0523		mg/L		105	80 - 120
Thallium	0.0100	0.0105		mg/L		105	80 - 120

Lab Sample ID: 400-136455-20 MS
Matrix: Water
Analysis Batch: 350346

Client Sample ID: SGWC-6
Prep Type: Total Recoverable
Prep Batch: 350111

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Antimony	<0.0010		0.0500	0.0600		mg/L		120	75 - 125
Arsenic	0.00046	J	0.0500	0.0581		mg/L		116	75 - 125
Barium	0.048		0.0500	0.0998		mg/L		105	75 - 125
Beryllium	<0.00034		0.0500	0.0575		mg/L		115	75 - 125
Boron	<0.021		0.100	0.121		mg/L		121	75 - 125
Cadmium	<0.00034		0.0500	0.0523		mg/L		105	75 - 125
Calcium	6.7		5.00	12.0		mg/L		106	75 - 125
Chromium	<0.0011		0.0500	0.0542		mg/L		108	75 - 125
Cobalt	0.0023	J	0.0500	0.0557		mg/L		107	75 - 125
Lead	<0.00035		0.0500	0.0508		mg/L		102	75 - 125
Lithium	<0.0032		0.0500	0.0539		mg/L		108	75 - 125
Molybdenum	<0.00085		0.100	0.111		mg/L		111	75 - 125
Selenium	0.00034	J	0.0500	0.0585		mg/L		116	75 - 125
Thallium	<0.00085		0.0100	0.0105		mg/L		105	75 - 125

Lab Sample ID: 400-136455-20 MSD
Matrix: Water
Analysis Batch: 350346

Client Sample ID: SGWC-6
Prep Type: Total Recoverable
Prep Batch: 350111

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Antimony	<0.0010		0.0500	0.0564		mg/L		113	75 - 125	6	20
Arsenic	0.00046	J	0.0500	0.0561		mg/L		112	75 - 125	3	20
Barium	0.048		0.0500	0.0998		mg/L		104	75 - 125	0	20
Beryllium	<0.00034		0.0500	0.0549		mg/L		110	75 - 125	5	20
Boron	<0.021		0.100	0.108		mg/L		108	75 - 125	12	20
Cadmium	<0.00034		0.0500	0.0517		mg/L		103	75 - 125	1	20
Calcium	6.7		5.00	11.7		mg/L		101	75 - 125	2	20
Chromium	<0.0011		0.0500	0.0537		mg/L		107	75 - 125	1	20
Cobalt	0.0023	J	0.0500	0.0552		mg/L		106	75 - 125	1	20
Lead	<0.00035		0.0500	0.0499		mg/L		100	75 - 125	2	20
Lithium	<0.0032		0.0500	0.0529		mg/L		106	75 - 125	2	20
Molybdenum	<0.00085		0.100	0.104		mg/L		104	75 - 125	6	20
Selenium	0.00034	J	0.0500	0.0543		mg/L		108	75 - 125	7	20
Thallium	<0.00085		0.0100	0.0104		mg/L		104	75 - 125	1	20

TestAmerica Pensacola

QC Sample Results

Client: Southern Company
Project/Site: CCR - Plant Scherer

TestAmerica Job ID: 400-136455-1
SDG: Ash Pond

Method: 7470A - Mercury (CVAA)

Lab Sample ID: MB 400-351066/14-A
Matrix: Water
Analysis Batch: 351589

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 351066

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.000070		0.00020	0.000070	mg/L		04/24/17 16:38	04/27/17 10:35	1

Lab Sample ID: LCS 400-351066/15-A
Matrix: Water
Analysis Batch: 351589

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 351066

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	Limits
Mercury	0.00101	0.000980		mg/L		97	80 - 120

Lab Sample ID: 400-136455-1 MS
Matrix: Water
Analysis Batch: 351589

Client Sample ID: SGWA-24
Prep Type: Total/NA
Prep Batch: 351066

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	Limits
Mercury	<0.000070		0.00201	0.00185		mg/L		92	80 - 120

Lab Sample ID: 400-136455-1 MSD
Matrix: Water
Analysis Batch: 351589

Client Sample ID: SGWA-24
Prep Type: Total/NA
Prep Batch: 351066

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Mercury	<0.000070		0.00201	0.00190		mg/L		94	80 - 120	3	20

Lab Sample ID: MB 400-351133/14-A
Matrix: Water
Analysis Batch: 351428

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 351133

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.000070		0.00020	0.000070	mg/L		04/25/17 08:56	04/26/17 13:31	1

Lab Sample ID: LCS 400-351133/15-A
Matrix: Water
Analysis Batch: 351428

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 351133

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	Limits
Mercury	0.00101	0.000918		mg/L		91	80 - 120

Lab Sample ID: 400-136777-V-2-B MS
Matrix: Water
Analysis Batch: 351428

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 351133

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	Limits
Mercury	<0.000070		0.00201	0.00192		mg/L		95	80 - 120

Lab Sample ID: 400-136777-V-2-C MSD
Matrix: Water
Analysis Batch: 351428

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA
Prep Batch: 351133

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Mercury	<0.000070		0.00201	0.00191		mg/L		95	80 - 120	1	20

TestAmerica Pensacola

QC Sample Results

Client: Southern Company
 Project/Site: CCR - Plant Scherer

TestAmerica Job ID: 400-136455-1
 SDG: Ash Pond

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

Lab Sample ID: MB 400-349918/1
Matrix: Water
Analysis Batch: 349918

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	<3.4		5.0	3.4	mg/L			04/15/17 16:01	1

Lab Sample ID: LCS 400-349918/2
Matrix: Water
Analysis Batch: 349918

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

Lab Sample ID: 400-136455-1 DU
Matrix: Water
Analysis Batch: 349918

Client Sample ID: SGWA-24
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Total Dissolved Solids	120		118		mg/L		0	5

Lab Sample ID: MB 400-349991/1
Matrix: Water
Analysis Batch: 349991

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	<3.4		5.0	3.4	mg/L			04/17/17 13:26	1

Lab Sample ID: LCS 400-349991/2
Matrix: Water
Analysis Batch: 349991

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	246		mg/L		84	78 - 122

Lab Sample ID: 400-136455-15 DU
Matrix: Water
Analysis Batch: 349991

Client Sample ID: SGWC-14
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Total Dissolved Solids	300		300		mg/L		0	5

Lab Sample ID: MB 400-350175/1
Matrix: Water
Analysis Batch: 350175

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	<3.4		5.0	3.4	mg/L			04/18/17 09:42	1

QC Sample Results

Client: Southern Company
 Project/Site: CCR - Plant Scherer

TestAmerica Job ID: 400-136455-1
 SDG: Ash Pond

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

Lab Sample ID: LCS 400-350175/2
Matrix: Water
Analysis Batch: 350175

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	300		mg/L		102	78 - 122

Lab Sample ID: 400-136455-24 DU
Matrix: Water
Analysis Batch: 350175

Client Sample ID: SGWC-16
Prep Type: Total/NA


Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Total Dissolved Solids	76		76.0		mg/L		0	5

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

TestAmerica Pensacola
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Chain of Custody Record

TestAmerica
 THE LEADER IN ENVIRONMENTAL TESTING

Client Information Company: Southern Company Address: 241 Ralph McGill Blvd SE B10185 City: Atlanta State, Zip: GA, 30308 Phone: Email: JAbraham@southernco.com Project Name: CCR - Scherer Site: Ash Pond		Lab Pkt: Whitnire, Cheyenne R E-Mail: cheyenne.whitnire@testamericainc.com		Carrier Tracking No(s): COC No: 400-57303-24790 Page: 1 of 1 Job #: 400-136455	
Date Requested: TAT Requested (days): PO #: GPC10624814 WO #: Project #: 40007041 SSOIW#:		Analysis Requested  400-136455 COC			
Sample Identification Sample ID: SGWA-24 Sample Date: 4/10/17 Sample Time: 1625 Matrix: Water		Field Filtered Sample (Yes or No): 2640C-TDS, 300_ORGFM_28D-Chloride, Fluoride, Sulfate 8020-Sp,As,Ba,Pb,Cd,Cr,Cu,Pb,LI,Mn,Se,NI,7470A-Hg 8316_Ra226,8320_Ra228, Ra228Ra228,GFPo			
Possible Hazard Identification <input type="checkbox"/> Non-Hazard <input type="checkbox"/> Flammable <input type="checkbox"/> Skin Irritant <input type="checkbox"/> Poison B <input type="checkbox"/> Unknown <input type="checkbox"/> Radiological Deliverable Requested: I, II, III, IV, Other (specify)		Special Instructions/Note: Total Number of Containers: 3 Preservation Codes: A - HCL B - NaOH C - Zn Acetate D - Nitric Acid E - NH4SO4 F - MeOH G - Amchlor H - Ascorbic Acid I - Ice J - DI Water K - EDTA L - EDA Other: M - Hexane N - None O - AsNaCO2 P - Na2OAS Q - Na2SO3 R - Na2SO4 S - H2SO4 T - TSF Dedicatlytrate U - Acetone V - MCAA W - RI 4-5 X - EDTA Z - other (specify)			
Empty Kit Relinquished by: Relinquished by: Ben Hodges Relinquished by: M. BAH Relinquished by:		Sample Disposal (A fee may be assessed if samples are retained longer than 1 month) <input type="checkbox"/> Return To Client <input type="checkbox"/> Disposal By Lab <input type="checkbox"/> Archive For _____ Months Special Instructions/QC Requirements:			
Relinquished by: Relinquished by: M. BAH Relinquished by:		Method of Shipment: Date/Time: 4/11/17 8:00 Date/Time: 4/11/17 10:00 Date/Time: 4/11/17 2990 Company: C-NOW Company: Company Company: Company Cooler Temperature(s) °C and Other Remarks:			
Custody Seals Intact: <input type="checkbox"/> Yes <input type="checkbox"/> No		Relinquished by: Ben Hodges Relinquished by: M. BAH Relinquished by:			

681-Atlanta

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Client Information Client Contact: Joji Abraham Company: Southern Company Address: 241 Ralph McGill Blvd SE B10185 City: Atlanta State, Zip: GA, 30308 Phone: [blank] Email: JAbraham@southernco.com Project Name: CCR - Scherer Site: Ash Pond		Lab PM: Whitmore, Cheyenne R. E-Mail: cheyenne.whitmore@testamericainc.com Carrier Tracking No(s): [blank]	
Due Date Requested: TAT Requested (days): PO #: GFC10624814 WC #: [blank] Project #: 40007041 SSOW#: [blank]		Analysis Requested  400-136455 COC	
Sample Identification Sample ID: SGWA-4 Sample ID: SGWA-5 Sample ID: EB-1(AP) Sample ID: SGWA-1 Sample ID: SGWA-2 Sample ID: FD-1(AP) Sample ID: SGWA-3 Sample ID: SGWA-25		Total Number of Containers: 3 Extra Radium: [blank]	
Sample Date: 4/11/17 Sample Time: 1625 Sample Type (C=Comp, G=grab): G Matrix (Inorganic, Organic, Petroleum, Other): Water		Special Instructions/Notes: [blank]	
Sample Date: 4/11/17 Sample Time: 1546 Sample Type (C=Comp, G=grab): G Matrix (Inorganic, Organic, Petroleum, Other): Water		Special Instructions/Notes: [blank]	
Sample Date: 4/11/17 Sample Time: 1700 Sample Type (C=Comp, G=grab): G Matrix (Inorganic, Organic, Petroleum, Other): Water		Special Instructions/Notes: [blank]	
Sample Date: 4/11/17 Sample Time: 1035 Sample Type (C=Comp, G=grab): G Matrix (Inorganic, Organic, Petroleum, Other): Water		Special Instructions/Notes: [blank]	
Sample Date: 4/11/17 Sample Time: 1150 Sample Type (C=Comp, G=grab): G Matrix (Inorganic, Organic, Petroleum, Other): Water		Special Instructions/Notes: [blank]	
Sample Date: 4/11/17 Sample Time: - Sample Type (C=Comp, G=grab): G Matrix (Inorganic, Organic, Petroleum, Other): Water		Special Instructions/Notes: [blank]	
Sample Date: 4/11/17 Sample Time: 1515 Sample Type (C=Comp, G=grab): G Matrix (Inorganic, Organic, Petroleum, Other): Water		Special Instructions/Notes: [blank]	
Sample Date: 4/11/17 Sample Time: 1655 Sample Type (C=Comp, G=grab): G Matrix (Inorganic, Organic, Petroleum, Other): Water		Special Instructions/Notes: [blank]	
Possible Hazard Identification <input type="checkbox"/> Non-Hazard <input type="checkbox"/> Flammable <input type="checkbox"/> Skin Irritant <input type="checkbox"/> Poison B <input type="checkbox"/> Unknown <input type="checkbox"/> Radiological Deliverable Requested: I, II, III, IV, Other (specify)			
Sample Disposal (A fee may be assessed if samples are retained longer than 1 month) <input type="checkbox"/> Return To Client <input type="checkbox"/> Disposal By Lab <input type="checkbox"/> Archive For _____ Months Special Instructions/QC Requirements:			
Empty Kit Relinquished by: [blank]		Method of Shipment: [blank]	
Relinquished by: Ben Hodges Date/Time: 4/12/17 08:00 Company: Colter		Received by: M. B. B. [Signature] Date/Time: 4-12-17 8:15 Company: C-Now	
Relinquished by: [blank]		Received by: [blank]	
Relinquished by: [blank]		Received by: [blank]	
Custody Seal Intact: <input type="checkbox"/> Yes <input type="checkbox"/> No Custody Seal No.: [blank]		Cooler Temperature(s) °C and Other Remarks: [blank]	



Client Information

Sampler: Whitfire, Cheyenne R
 Phone: cheyenne.whitfire@testamericainc.com

Lab Pk: Whitfire, Cheyenne R
 E-Mail: cheyenne.whitfire@testamericainc.com


COC No: 400-57303-24790
 Page: 1 of 1

Center Tracking No(s): 400-136455

Sample Identification	Sample Date	Sample Time (C=Comp, G=Grab)	Sample Type	Matrix (In-water, On-water, On-soil, On-sediment, On-ice, Ash Pond)	Field Filtered Sample (Yes or No)			Perform MS/MSD (Yes or No)			Total Number of Containers	Special Instructions/Note:
					N	D	D	N	D	D		
SGWC-13	4/12/17	1400	G	Water	N	1	1	1		3		
EB-2(AP)	4/12/17	1450	G	Water	N	1	1	1		3		
SGWC-12	4/12/17	1130	G	Water	N	1	1	1		3		
SGWC-11	4/12/17	1005	G	Water	N	1	1	1		3		
FD-2(AP)	4/12/17	-	G	Water	N	1	1	1		3		
SGWC-14	4/12/17	1415	G	Water	N	1	1	1		3		
SGWC-10	4/12/17	1110	G	Water	N	1	1	1		3		
FB-2(AP)	4/12/17	1010	G	Water	N	1	1	1		3		
SGWC-8	4/12/17	0915	G	Water	N	1	1	1		3		
FB-1(AP)	4/12/17	0900	G	Water	N	1	1	1		3		
SGWC-6	4/12/17	1001	G	Water	N	1	1	1		3		
SGWC-7	4/12/17	1211	G	Water	N	1	1	2		4	Extra Radium	
SGWC-15	4/12/17	1511	G	Water	N	1	1	1		3		

Analysis Requested

9315_Pa226, 9320_Pa228, Ra226, Ra228, Ra226Ra228_GFCP



400-136455 COC

Preservation Codes:
 A - HCl, M - Hexane, N - None, O - NaOH, P - Na2SO4, Q - Nitric Acid, R - Na2S2O3, S - H2SO4, T - TSP Dodecahydrate, U - Acetone, V - MCAA, W - ph 4-5, X - EDTA, Y - EDA, Z - other (specify)
 Other: _____

Special Instructions/Note: _____

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

Special Instructions/QC Requirements: _____

Received by:	Date:	Company:
<i>Ben Hodges</i>	4/13/17 8:00	Company BAH
<i>M - BAH</i>	4/13/17 10:20	Company Golden
<i>[Signature]</i>	4/13/17 11:10	Company NCA

Cooler Temperature(s) °C and Other Remarks: *Y.S., 2/20/2017*




TestAmerica Pensacola
 3355 McLemore Drive
 Pensacola, FL 32514
 Phone (850) 474-1001 Fax (850) 478-2671

681-Atlanta

Chain of Custody Record

TestAmerica

Client Information Client Contact: Joju Abraham Company: Southern Company Address: 241 Ralph McGill Blvd SE B10185 City: Atlanta State/Zip: GA, 30308 Phone: _____ Email: JAbraham@southernco.com Project Name: CCR - Scherer Site: Ash Pond		Lab P/N: Whitmire, Cheyenne R E-Mail: cheyenne.whitmire@testamericainc.com Carrier Tracking No(s): _____ Job #: _____		COC No: 400-57303-24780 Page: 1 of 1										
Due Date Requested: TAT Requested (days): _____ PO #: _____ GPC: 10624814 WD #: _____ Project #: 40007041 SSOW#: _____			Analysis Requested  400-136455 COC											
Sample Identification	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Preservation Code	Matrix (Water, Swab, Organic, or Tissue, Air)	Field Filtered Sample (Yes or No)			Perform MS/MSD (Yes or No)			Total Number of Containers	Special Instructions/Note:	
						N	D	D	N	D	D			
SGWC-9	4/13/17	1220	G		Water				N	1	1	1	3	
SGWC-16	4/13/17	0940	G		Water				N	1	1	1	3	
FD-3(AP)	4/13/17	--	G		Water				N	1	1	1	3	
SGWC-17	4/13/17	1130	G		Water				N	1	1	1	3	
SGWC-18	4/13/17	1330	G		Water				N	1	1	1	3	
SGWC-19	4/13/17	1340	G		Water				N	1	1	1	3	
SGWC-20	4/13/17	1135	G		Water				N	1	1	2	4	Extra Radium
SGWC-21	4/13/17	0958	G		Water				N	1	1	1	3	
SGWC-22	4/13/17	1025	G		Water				N	1	1	1	3	
SGWC-23	4/13/17	0910	G		Water				N	1	1	1	3	
FB-3(AP)	4/13/17	0800	G		Water				N	1	1	1	3	

Non-Hazard Flammable Skin Irritant Unknown Radiological
 Deliverable Requested: I, II, III, IV, Other (specify) _____

Possible Hazard Identification
 Non-Hazard Flammable Skin Irritant Unknown Radiological
 Deliverable Requested: I, II, III, IV, Other (specify) _____

Empty Kit Relinquished by: _____ Date: _____
 Relinquished by: Ben Hodges
 Relinquished by: M. BATH
 Relinquished by: _____ Date: 4/14/17 10:35
 Relinquished by: _____ Date: 4/14/17 1040

Custody Seal No.: _____
 Cooler Temperature(s) °C and Other Remarks: 3.8C YR2

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
 Return To Client Disposal By Lab Archive For _____ Months
 Special Instructions/QC Requirements: _____



Login Sample Receipt Checklist

Client: Southern Company

Job Number: 400-136455-1

SDG Number: Ash Pond

Login Number: 136455

List Number: 1

Creator: Siddoway, Benjamin

List Source: TestAmerica Pensacola

Question	Answer	Comment
Radioactivity wasn't checked or is \leq background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	N/A	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	2.5°C IR-7; 3.0°C, 2.8°C, 4.3°C, 2.1°C, 3.8°C IR-2
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.	False	Received extra samples not listed on COC.
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 <math><6\text{mm}</math> (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: Southern Company
 Project/Site: CCR - Plant Scherer

TestAmerica Job ID: 400-136455-1
 SDG: Ash Pond

Laboratory: TestAmerica Pensacola

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

Authority	Program	EPA Region	Identification Number	Expiration Date
Alabama	State Program	4	40150	06-30-17
Arizona	State Program	9	AZ0710	01-11-18
Arkansas DEQ	State Program	6	88-0689	09-01-17
California	ELAP	9	2510	03-31-18
Florida	NELAP	4	E81010	06-30-17
Georgia	State Program	4	N/A	06-30-17
Illinois	NELAP	5	200041	10-09-17
Iowa	State Program	7	367	08-01-18
Kansas	NELAP	7	E-10253	10-31-17
Kentucky (UST)	State Program	4	53	06-30-17
Kentucky (WW)	State Program	4	98030	12-31-17
L-A-B	ISO/IEC 17025		L2471	02-22-20
Louisiana	NELAP	6	30976	06-30-17
Louisiana (DW)	NELAP Secondary AB	6	LA170005	12-31-17
Maryland	State Program	3	233	09-30-17
Massachusetts	State Program	1	M-FL094	06-30-17
Michigan	State Program	5	9912	05-06-17
New Jersey	NELAP	2	FL006	06-30-17
North Carolina (WW/SW)	State Program	4	314	12-31-17
Oklahoma	State Program	6	9810	08-31-17
Pennsylvania	NELAP	3	68-00467	01-31-18
Rhode Island	State Program	1	LAO00307	12-30-17
South Carolina	State Program	4	96026	06-30-17
Tennessee	State Program	4	TN02907	06-30-17
Texas	NELAP	6	T104704286-16-10	09-30-17
USDA	Federal		P330-16-00172	05-24-19
Virginia	NELAP	3	460166	06-14-17
Washington	State Program	10	C915	05-15-17
West Virginia DEP	State Program	3	136	06-30-17



TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

TestAmerica Laboratories, Inc.

TestAmerica Pensacola

3355 McLemore Drive

Pensacola, FL 32514

Tel: (850)474-1001

TestAmerica Job ID: 400-136455-2

TestAmerica Sample Delivery Group: Ash Pond

Client Project/Site: CCR - Plant Scherer

For:

Southern Company

241 Ralph McGill Blvd SE

B10185

Atlanta, Georgia 30308

Attn: Joju Abraham



Authorized for release by:

5/17/2017 9:34:19 PM

Cheyenne Whitmire, Project Manager II

(850)471-6222

cheyenne.whitmire@testamericainc.com

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The test results in this report meet all 2003 NELAC and 2009 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.

1

2

3

4

5

6

7

8

9

10

11

12



Table of Contents

Cover Page	1
Table of Contents	2
Method Summary	3
Sample Summary	4
Client Sample Results	5
Definitions	39
Chronicle	40
QC Association	49
QC Sample Results	51
Chain of Custody	55
Receipt Checklists	59
Certification Summary	60

Method Summary

Client: Southern Company
Project/Site: CCR - Plant Scherer

TestAmerica Job ID: 400-136455-2
SDG: Ash Pond

Method	Method Description	Protocol	Laboratory
9315	Radium-226 (GFPC)	SW846	TAL SL
9320	Radium-228 (GFPC)	SW846	TAL SL
Ra226_Ra228	Combined Radium-226 and Radium-228	TAL-STL	TAL SL

Protocol References:

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:

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



Sample Summary

Client: Southern Company
Project/Site: CCR - Plant Scherer

TestAmerica Job ID: 400-136455-2
SDG: Ash Pond

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
400-136455-1	SGWA-24	Water	04/10/17 16:25	04/12/17 09:40
400-136455-2	SGWA-4	Water	04/11/17 16:25	04/13/17 09:01
400-136455-3	SGWA-5	Water	04/11/17 15:46	04/13/17 09:01
400-136455-4	EB-1(AP)	Water	04/11/17 17:00	04/13/17 09:01
400-136455-5	SGWA-1	Water	04/11/17 10:35	04/13/17 09:01
400-136455-6	SGWA-2	Water	04/11/17 11:50	04/13/17 09:01
400-136455-7	FD-1(AP)	Water	04/11/17 00:00	04/13/17 09:01
400-136455-8	SGWA-3	Water	04/11/17 15:15	04/13/17 09:01
400-136455-9	SGWA-25	Water	04/11/17 16:55	04/13/17 09:01
400-136455-10	SGWC-13	Water	04/12/17 14:00	04/14/17 08:44
400-136455-11	EB-2(AP)	Water	04/12/17 14:50	04/14/17 08:44
400-136455-12	SGWC-12	Water	04/12/17 11:30	04/14/17 08:44
400-136455-13	SGWC-11	Water	04/12/17 10:05	04/14/17 08:44
400-136455-14	FD-2(AP)	Water	04/12/17 00:00	04/14/17 08:44
400-136455-15	SGWC-14	Water	04/12/17 14:15	04/14/17 08:44
400-136455-16	SGWC-10	Water	04/12/17 11:10	04/14/17 08:44
400-136455-17	FB-2(AP)	Water	04/12/17 10:10	04/14/17 08:44
400-136455-18	SGWC-8	Water	04/12/17 09:15	04/14/17 08:44
400-136455-19	FB-1(AP)	Water	04/12/17 09:00	04/14/17 08:44
400-136455-20	SGWC-6	Water	04/12/17 10:01	04/14/17 08:44
400-136455-21	SGWC-7	Water	04/12/17 12:11	04/14/17 08:44
400-136455-22	SGWC-15	Water	04/12/17 15:11	04/14/17 08:44
400-136455-23	SGWC-9	Water	04/13/17 12:20	04/15/17 08:25
400-136455-24	SGWC-16	Water	04/13/17 09:40	04/15/17 08:25
400-136455-25	FD-3(AP)	Water	04/13/17 00:00	04/15/17 08:25
400-136455-26	SGWC-17	Water	04/13/17 11:30	04/15/17 08:25
400-136455-27	SGWC-18	Water	04/13/17 13:30	04/15/17 08:25
400-136455-28	SGWC-19	Water	04/13/17 13:40	04/15/17 08:25
400-136455-29	SGWC-20	Water	04/13/17 11:35	04/15/17 08:25
400-136455-30	SGWC-21	Water	04/13/17 09:58	04/15/17 08:25
400-136455-31	SGWC-22	Water	04/13/17 10:25	04/15/17 08:25
400-136455-32	SGWC-23	Water	04/13/17 09:10	04/15/17 08:25
400-136455-33	FB-3(AP)	Water	04/13/17 09:00	04/15/17 08:25
400-136455-34	EB-3(AP)	Water	04/13/17 14:00	04/15/17 08:25

Client Sample Results

Client: Southern Company
 Project/Site: CCR - Plant Scherer

TestAmerica Job ID: 400-136455-2
 SDG: Ash Pond

Client Sample ID: SGWA-24

Date Collected: 04/10/17 16:25

Date Received: 04/12/17 09:40

Lab Sample ID: 400-136455-1

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	-0.00165	U	0.0573	0.0573	1.00	0.120	pCi/L	04/21/17 07:59	05/15/17 05:53	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	89.1		40 - 110					04/21/17 07:59	05/15/17 05:53	1

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.00221	U	0.208	0.208	1.00	0.375	pCi/L	04/21/17 08:23	05/09/17 11:12	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	89.1		40 - 110					04/21/17 08:23	05/09/17 11:12	1
Y Carrier	88.2		40 - 110					04/21/17 08:23	05/09/17 11:12	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	0.000560	U	0.216	0.216	5.00	0.375	pCi/L		05/16/17 18:11	1

Client Sample Results

Client: Southern Company
Project/Site: CCR - Plant Scherer

TestAmerica Job ID: 400-136455-2
SDG: Ash Pond

Client Sample ID: SGWA-4

Lab Sample ID: 400-136455-2

Date Collected: 04/11/17 16:25

Matrix: Water

Date Received: 04/13/17 09:01

Method: 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.0567	U	0.0801	0.0803	1.00	0.136	pCi/L	04/21/17 07:59	05/15/17 05:53	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	89.4		40 - 110					04/21/17 07:59	05/15/17 05:53	1

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	-0.225	U	0.253	0.253	1.00	0.481	pCi/L	04/21/17 08:23	05/09/17 11:12	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	89.4		40 - 110					04/21/17 08:23	05/09/17 11:12	1
Y Carrier	86.4		40 - 110					04/21/17 08:23	05/09/17 11:12	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	-0.168	U	0.265	0.266	5.00	0.481	pCi/L		05/16/17 18:11	1

Client Sample Results

Client: Southern Company
Project/Site: CCR - Plant Scherer

TestAmerica Job ID: 400-136455-2
SDG: Ash Pond

Client Sample ID: SGWA-5

Date Collected: 04/11/17 15:46

Date Received: 04/13/17 09:01

Lab Sample ID: 400-136455-3

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	0.0114	U	0.0587	0.0587	1.00	0.116	pCi/L	04/21/17 07:59	05/15/17 05:54	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	96.5		40 - 110					04/21/17 07:59	05/15/17 05:54	1

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.208	U	0.200	0.201	1.00	0.322	pCi/L	04/21/17 08:23	05/09/17 11:13	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	96.5		40 - 110					04/21/17 08:23	05/09/17 11:13	1
Y Carrier	89.0		40 - 110					04/21/17 08:23	05/09/17 11:13	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	0.219	U	0.208	0.209	5.00	0.322	pCi/L		05/16/17 18:11	1

Client Sample Results

Client: Southern Company
Project/Site: CCR - Plant Scherer

TestAmerica Job ID: 400-136455-2
SDG: Ash Pond

Client Sample ID: EB-1(AP)

Lab Sample ID: 400-136455-4

Date Collected: 04/11/17 17:00

Matrix: Water

Date Received: 04/13/17 09:01

Method: 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.0208	U	0.0572	0.0572	1.00	0.108	pCi/L	04/21/17 07:59	05/15/17 05:54	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	88.2		40 - 110					04/21/17 07:59	05/15/17 05:54	1

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.221	U	0.238	0.239	1.00	0.389	pCi/L	04/21/17 08:23	05/09/17 11:13	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	88.2		40 - 110					04/21/17 08:23	05/09/17 11:13	1
Y Carrier	87.1		40 - 110					04/21/17 08:23	05/09/17 11:13	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	0.242	U	0.245	0.246	5.00	0.389	pCi/L		05/16/17 18:11	1

Client Sample Results

Client: Southern Company
Project/Site: CCR - Plant Scherer

TestAmerica Job ID: 400-136455-2
SDG: Ash Pond

Client Sample ID: SGWA-1

Date Collected: 04/11/17 10:35

Date Received: 04/13/17 09:01

Lab Sample ID: 400-136455-5

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	0.0165	U	0.0592	0.0592	1.00	0.113	pCi/L	04/21/17 07:59	05/15/17 05:54	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	95.9		40 - 110					04/21/17 07:59	05/15/17 05:54	1

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.258	U	0.231	0.233	1.00	0.372	pCi/L	04/21/17 08:23	05/09/17 11:13	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	95.9		40 - 110					04/21/17 08:23	05/09/17 11:13	1
Y Carrier	84.9		40 - 110					04/21/17 08:23	05/09/17 11:13	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	0.274	U	0.239	0.240	5.00	0.372	pCi/L		05/16/17 18:11	1

Client Sample Results

Client: Southern Company
Project/Site: CCR - Plant Scherer

TestAmerica Job ID: 400-136455-2
SDG: Ash Pond

Client Sample ID: SGWA-2

Lab Sample ID: 400-136455-6

Date Collected: 04/11/17 11:50

Matrix: Water

Date Received: 04/13/17 09:01

Method: 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.0258	U	0.0624	0.0624	1.00	0.116	pCi/L	04/21/17 07:59	05/15/17 05:54	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	89.1		40 - 110					04/21/17 07:59	05/15/17 05:54	1

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.170	U	0.238	0.239	1.00	0.398	pCi/L	04/21/17 08:23	05/09/17 11:13	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	89.1		40 - 110					04/21/17 08:23	05/09/17 11:13	1
Y Carrier	88.2		40 - 110					04/21/17 08:23	05/09/17 11:13	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	0.195	U	0.246	0.247	5.00	0.398	pCi/L		05/16/17 18:11	1

Client Sample Results

Client: Southern Company
Project/Site: CCR - Plant Scherer

TestAmerica Job ID: 400-136455-2
SDG: Ash Pond

Client Sample ID: FD-1(AP)

Lab Sample ID: 400-136455-7

Date Collected: 04/11/17 00:00

Matrix: Water

Date Received: 04/13/17 09:01

Method: 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.0125	U	0.0548	0.0548	1.00	0.109	pCi/L	04/21/17 07:59	05/15/17 05:54	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	87.9		40 - 110					04/21/17 07:59	05/15/17 05:54	1

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	-0.0342	U	0.292	0.292	1.00	0.518	pCi/L	04/21/17 08:23	05/09/17 11:13	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	87.9		40 - 110					04/21/17 08:23	05/09/17 11:13	1
Y Carrier	87.5		40 - 110					04/21/17 08:23	05/09/17 11:13	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	-0.0217	U	0.297	0.297	5.00	0.518	pCi/L		05/16/17 18:11	1

Client Sample Results

Client: Southern Company
Project/Site: CCR - Plant Scherer

TestAmerica Job ID: 400-136455-2
SDG: Ash Pond

Client Sample ID: SGWA-3

Date Collected: 04/11/17 15:15

Date Received: 04/13/17 09:01

Lab Sample ID: 400-136455-8

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	0.0228	U	0.0560	0.0560	1.00	0.105	pCi/L	04/21/17 07:59	05/15/17 05:54	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	92.6		40 - 110					04/21/17 07:59	05/15/17 05:54	1

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.112	U	0.232	0.232	1.00	0.395	pCi/L	04/21/17 08:23	05/09/17 11:13	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	92.6		40 - 110					04/21/17 08:23	05/09/17 11:13	1
Y Carrier	90.1		40 - 110					04/21/17 08:23	05/09/17 11:13	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	0.135	U	0.238	0.239	5.00	0.395	pCi/L		05/16/17 18:11	1

Client Sample Results

Client: Southern Company
Project/Site: CCR - Plant Scherer

TestAmerica Job ID: 400-136455-2
SDG: Ash Pond

Client Sample ID: SGWA-25

Date Collected: 04/11/17 16:55

Date Received: 04/13/17 09:01

Lab Sample ID: 400-136455-9

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	0.0397	U	0.0536	0.0537	1.00	0.0898	pCi/L	04/21/17 07:59	05/15/17 05:55	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	92.0		40 - 110					04/21/17 07:59	05/15/17 05:55	1

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	-0.0581	U	0.219	0.219	1.00	0.403	pCi/L	04/21/17 08:23	05/09/17 11:13	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	92.0		40 - 110					04/21/17 08:23	05/09/17 11:13	1
Y Carrier	84.9		40 - 110					04/21/17 08:23	05/09/17 11:13	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	-0.0184	U	0.225	0.225	5.00	0.403	pCi/L		05/16/17 18:11	1

Client Sample Results

Client: Southern Company
Project/Site: CCR - Plant Scherer

TestAmerica Job ID: 400-136455-2
SDG: Ash Pond

Client Sample ID: SGWC-13

Lab Sample ID: 400-136455-10

Date Collected: 04/12/17 14:00

Matrix: Water

Date Received: 04/14/17 08:44

Method: 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.0703	U	0.0669	0.0672	1.00	0.101	pCi/L	04/21/17 07:59	05/15/17 05:55	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	91.7		40 - 110					04/21/17 07:59	05/15/17 05:55	1

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.139	U	0.237	0.238	1.00	0.402	pCi/L	04/21/17 08:23	05/09/17 11:13	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	91.7		40 - 110					04/21/17 08:23	05/09/17 11:13	1
Y Carrier	84.9		40 - 110					04/21/17 08:23	05/09/17 11:13	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	0.210	U	0.246	0.247	5.00	0.402	pCi/L		05/16/17 18:11	1

Client Sample Results

Client: Southern Company
Project/Site: CCR - Plant Scherer

TestAmerica Job ID: 400-136455-2
SDG: Ash Pond

Client Sample ID: EB-2(AP)

Lab Sample ID: 400-136455-11

Date Collected: 04/12/17 14:50

Matrix: Water

Date Received: 04/14/17 08:44

Method: 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.0603	U	0.0728	0.0730	1.00	0.120	pCi/L	04/21/17 07:59	05/15/17 05:55	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	95.3		40 - 110					04/21/17 07:59	05/15/17 05:55	1

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	-0.0394	U	0.228	0.228	1.00	0.412	pCi/L	04/21/17 08:23	05/09/17 11:13	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	95.3		40 - 110					04/21/17 08:23	05/09/17 11:13	1
Y Carrier	87.1		40 - 110					04/21/17 08:23	05/09/17 11:13	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	0.0209	U	0.239	0.239	5.00	0.412	pCi/L		05/16/17 18:11	1

Client Sample Results

Client: Southern Company
Project/Site: CCR - Plant Scherer

TestAmerica Job ID: 400-136455-2
SDG: Ash Pond

Client Sample ID: SGWC-12

Lab Sample ID: 400-136455-12

Date Collected: 04/12/17 11:30

Matrix: Water

Date Received: 04/14/17 08:44

Method: 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.0539	U	0.0579	0.0581	1.00	0.0900	pCi/L	04/21/17 07:59	05/15/17 05:55	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	91.7		40 - 110					04/21/17 07:59	05/15/17 05:55	1

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	-0.0444	U	0.202	0.202	1.00	0.371	pCi/L	04/21/17 08:23	05/09/17 11:13	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	91.7		40 - 110					04/21/17 08:23	05/09/17 11:13	1
Y Carrier	89.7		40 - 110					04/21/17 08:23	05/09/17 11:13	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	0.00949	U	0.210	0.210	5.00	0.371	pCi/L		05/16/17 18:11	1

Client Sample Results

Client: Southern Company
Project/Site: CCR - Plant Scherer

TestAmerica Job ID: 400-136455-2
SDG: Ash Pond

Client Sample ID: SGWC-11

Lab Sample ID: 400-136455-13

Date Collected: 04/12/17 10:05

Matrix: Water

Date Received: 04/14/17 08:44

Method: 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	-0.0108	U	0.0631	0.0631	1.00	0.131	pCi/L	04/21/17 07:59	05/15/17 05:55	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	96.2		40 - 110					04/21/17 07:59	05/15/17 05:55	1

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.353	U	0.233	0.235	1.00	0.359	pCi/L	04/21/17 08:23	05/09/17 11:14	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	96.2		40 - 110					04/21/17 08:23	05/09/17 11:14	1
Y Carrier	87.9		40 - 110					04/21/17 08:23	05/09/17 11:14	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	0.343	U	0.241	0.244	5.00	0.359	pCi/L		05/16/17 18:11	1

Client Sample Results

Client: Southern Company
Project/Site: CCR - Plant Scherer

TestAmerica Job ID: 400-136455-2
SDG: Ash Pond

Client Sample ID: FD-2(AP)

Lab Sample ID: 400-136455-14

Date Collected: 04/12/17 00:00

Matrix: Water

Date Received: 04/14/17 08:44

Method: 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.00254	U	0.0639	0.0639	1.00	0.129	pCi/L	04/21/17 07:59	05/15/17 05:55	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	89.7		40 - 110					04/21/17 07:59	05/15/17 05:55	1

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	-0.237	U	0.210	0.211	1.00	0.419	pCi/L	04/21/17 08:23	05/09/17 11:14	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	89.7		40 - 110					04/21/17 08:23	05/09/17 11:14	1
Y Carrier	85.6		40 - 110					04/21/17 08:23	05/09/17 11:14	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	-0.235	U	0.220	0.221	5.00	0.419	pCi/L		05/16/17 18:11	1

Client Sample Results

Client: Southern Company
Project/Site: CCR - Plant Scherer

TestAmerica Job ID: 400-136455-2
SDG: Ash Pond

Client Sample ID: SGWC-14

Date Collected: 04/12/17 14:15

Date Received: 04/14/17 08:44

Lab Sample ID: 400-136455-15

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	-0.0132	U	0.0463	0.0463	1.00	0.108	pCi/L	04/21/17 07:59	05/15/17 05:55	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	92.3		40 - 110					04/21/17 07:59	05/15/17 05:55	1

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.246	U	0.244	0.245	1.00	0.395	pCi/L	04/21/17 08:23	05/09/17 11:14	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	92.3		40 - 110					04/21/17 08:23	05/09/17 11:14	1
Y Carrier	80.0		40 - 110					04/21/17 08:23	05/09/17 11:14	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	0.233	U	0.248	0.249	5.00	0.395	pCi/L		05/16/17 18:11	1

Client Sample Results

Client: Southern Company
Project/Site: CCR - Plant Scherer

TestAmerica Job ID: 400-136455-2
SDG: Ash Pond

Client Sample ID: SGWC-10

Date Collected: 04/12/17 11:10

Date Received: 04/14/17 08:44

Lab Sample ID: 400-136455-16

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	-0.00665	U	0.0464	0.0464	1.00	0.105	pCi/L	04/21/17 07:59	05/15/17 05:55	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	90.9		40 - 110					04/21/17 07:59	05/15/17 05:55	1

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	-0.0331	U	0.217	0.217	1.00	0.399	pCi/L	04/21/17 08:23	05/09/17 11:14	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	90.9		40 - 110					04/21/17 08:23	05/09/17 11:14	1
Y Carrier	80.4		40 - 110					04/21/17 08:23	05/09/17 11:14	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	-0.0397	U	0.222	0.222	5.00	0.399	pCi/L		05/16/17 18:11	1

Client Sample Results

Client: Southern Company
 Project/Site: CCR - Plant Scherer

TestAmerica Job ID: 400-136455-2
 SDG: Ash Pond

Client Sample ID: FB-2(AP)

Lab Sample ID: 400-136455-17

Date Collected: 04/12/17 10:10

Matrix: Water

Date Received: 04/14/17 08:44

Method: 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.0202	U	0.0557	0.0557	1.00	0.106	pCi/L	04/21/17 07:59	05/15/17 05:55	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	96.5		40 - 110					04/21/17 07:59	05/15/17 05:55	1

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.0729	U	0.206	0.206	1.00	0.358	pCi/L	04/21/17 08:23	05/09/17 11:14	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	96.5		40 - 110					04/21/17 08:23	05/09/17 11:14	1
Y Carrier	86.7		40 - 110					04/21/17 08:23	05/09/17 11:14	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	0.0931	U	0.214	0.214	5.00	0.358	pCi/L		05/16/17 18:11	1

Client Sample Results

Client: Southern Company
Project/Site: CCR - Plant Scherer

TestAmerica Job ID: 400-136455-2
SDG: Ash Pond

Client Sample ID: SGWC-8

Lab Sample ID: 400-136455-18

Date Collected: 04/12/17 09:15

Matrix: Water

Date Received: 04/14/17 08:44

Method: 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.414		0.126	0.131	1.00	0.0998	pCi/L	04/21/17 07:59	05/15/17 05:57	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	93.2		40 - 110					04/21/17 07:59	05/15/17 05:57	1

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	2.30		0.375	0.431	1.00	0.365	pCi/L	04/21/17 08:23	05/09/17 11:15	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	93.2		40 - 110					04/21/17 08:23	05/09/17 11:15	1
Y Carrier	85.6		40 - 110					04/21/17 08:23	05/09/17 11:15	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	2.72		0.396	0.450	5.00	0.365	pCi/L		05/16/17 18:11	1

Client Sample Results

Client: Southern Company
 Project/Site: CCR - Plant Scherer

TestAmerica Job ID: 400-136455-2
 SDG: Ash Pond

Client Sample ID: FB-1(AP)

Lab Sample ID: 400-136455-19

Date Collected: 04/12/17 09:00

Matrix: Water

Date Received: 04/14/17 08:44

Method: 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.0391	U	0.0567	0.0568	1.00	0.0969	pCi/L	04/21/17 07:59	05/15/17 05:57	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	92.3		40 - 110					04/21/17 07:59	05/15/17 05:57	1

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.0619	U	0.191	0.191	1.00	0.335	pCi/L	04/21/17 08:23	05/09/17 11:15	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	92.3		40 - 110					04/21/17 08:23	05/09/17 11:15	1
Y Carrier	86.4		40 - 110					04/21/17 08:23	05/09/17 11:15	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	0.101	U	0.199	0.199	5.00	0.335	pCi/L		05/16/17 18:11	1

Client Sample Results

Client: Southern Company
Project/Site: CCR - Plant Scherer

TestAmerica Job ID: 400-136455-2
SDG: Ash Pond

Client Sample ID: SGWC-6

Lab Sample ID: 400-136455-20

Date Collected: 04/12/17 10:01

Matrix: Water

Date Received: 04/14/17 08:44

Method: 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.0639	U	0.0578	0.0581	1.00	0.0826	pCi/L	04/21/17 07:59	05/15/17 05:57	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	92.0		40 - 110					04/21/17 07:59	05/15/17 05:57	1

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.291	U	0.248	0.249	1.00	0.395	pCi/L	04/21/17 08:23	05/09/17 11:15	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	92.0		40 - 110					04/21/17 08:23	05/09/17 11:15	1
Y Carrier	83.7		40 - 110					04/21/17 08:23	05/09/17 11:15	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	0.355	U	0.255	0.256	5.00	0.395	pCi/L		05/16/17 18:11	1

Client Sample Results

Client: Southern Company
Project/Site: CCR - Plant Scherer

TestAmerica Job ID: 400-136455-2
SDG: Ash Pond

Client Sample ID: SGWC-7

Lab Sample ID: 400-136455-21

Date Collected: 04/12/17 12:11

Matrix: Water

Date Received: 04/14/17 08:44

Method: 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.0164	U	0.0726	0.0726	1.00	0.141	pCi/L	04/21/17 08:04	05/15/17 08:11	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	90.9		40 - 110					04/21/17 08:04	05/15/17 08:11	1

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.190	U	0.236	0.236	1.00	0.390	pCi/L	04/21/17 09:28	05/10/17 11:08	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	90.9		40 - 110					04/21/17 09:28	05/10/17 11:08	1
Y Carrier	84.5		40 - 110					04/21/17 09:28	05/10/17 11:08	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	0.206	U	0.246	0.247	5.00	0.390	pCi/L		05/16/17 18:11	1

Client Sample Results

Client: Southern Company
Project/Site: CCR - Plant Scherer

TestAmerica Job ID: 400-136455-2
SDG: Ash Pond

Client Sample ID: SGWC-15

Lab Sample ID: 400-136455-22

Date Collected: 04/12/17 15:11

Matrix: Water

Date Received: 04/14/17 08:44

Method: 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.00801	U	0.0526	0.0526	1.00	0.109	pCi/L	04/21/17 08:04	05/15/17 08:11	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	93.5		40 - 110					04/21/17 08:04	05/15/17 08:11	1

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.189	U	0.217	0.218	1.00	0.357	pCi/L	04/21/17 09:28	05/10/17 11:09	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	93.5		40 - 110					04/21/17 09:28	05/10/17 11:09	1
Y Carrier	86.7		40 - 110					04/21/17 09:28	05/10/17 11:09	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	0.197	U	0.223	0.224	5.00	0.357	pCi/L		05/16/17 18:11	1

Client Sample Results

Client: Southern Company
 Project/Site: CCR - Plant Scherer

TestAmerica Job ID: 400-136455-2
 SDG: Ash Pond

Client Sample ID: SGWC-9

Lab Sample ID: 400-136455-23

Date Collected: 04/13/17 12:20

Matrix: Water

Date Received: 04/15/17 08:25

Method: 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	0.0541	0.0541	1.00	0.122	pCi/L	04/21/17 08:04	05/15/17 08:11	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	90.9		40 - 110					04/21/17 08:04	05/15/17 08:11	1

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.250	U	0.262	0.263	1.00	0.429	pCi/L	04/21/17 09:28	05/10/17 11:09	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	90.9		40 - 110					04/21/17 09:28	05/10/17 11:09	1
Y Carrier	86.4		40 - 110					04/21/17 09:28	05/10/17 11:09	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	0.239	U	0.268	0.269	5.00	0.429	pCi/L		05/16/17 18:11	1

Client Sample Results

Client: Southern Company
Project/Site: CCR - Plant Scherer

TestAmerica Job ID: 400-136455-2
SDG: Ash Pond

Client Sample ID: SGWC-16

Lab Sample ID: 400-136455-24

Date Collected: 04/13/17 09:40

Matrix: Water

Date Received: 04/15/17 08:25

Method: 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.000919	U	0.0609	0.0609	1.00	0.127	pCi/L	04/21/17 08:04	05/15/17 08:11	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	90.6		40 - 110					04/21/17 08:04	05/15/17 08:11	1

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.0513	U	0.179	0.179	1.00	0.316	pCi/L	04/21/17 09:28	05/10/17 11:09	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	90.6		40 - 110					04/21/17 09:28	05/10/17 11:09	1
Y Carrier	86.0		40 - 110					04/21/17 09:28	05/10/17 11:09	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	0.0522	U	0.189	0.189	5.00	0.316	pCi/L		05/16/17 18:11	1

Client Sample Results

Client: Southern Company
Project/Site: CCR - Plant Scherer

TestAmerica Job ID: 400-136455-2
SDG: Ash Pond

Client Sample ID: FD-3(AP)

Date Collected: 04/13/17 00:00

Date Received: 04/15/17 08:25

Lab Sample ID: 400-136455-25

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	0.0110	U	0.0602	0.0602	1.00	0.121	pCi/L	04/21/17 08:04	05/15/17 08:11	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	91.2		40 - 110					04/21/17 08:04	05/15/17 08:11	1

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.147	U	0.193	0.194	1.00	0.322	pCi/L	04/21/17 09:28	05/10/17 11:09	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	91.2		40 - 110					04/21/17 09:28	05/10/17 11:09	1
Y Carrier	93.5		40 - 110					04/21/17 09:28	05/10/17 11:09	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	0.158	U	0.203	0.203	5.00	0.322	pCi/L		05/16/17 18:11	1

Client Sample Results

Client: Southern Company
Project/Site: CCR - Plant Scherer

TestAmerica Job ID: 400-136455-2
SDG: Ash Pond

Client Sample ID: SGWC-17

Lab Sample ID: 400-136455-26

Date Collected: 04/13/17 11:30

Matrix: Water

Date Received: 04/15/17 08:25

Method: 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	-0.0166	U	0.0491	0.0491	1.00	0.116	pCi/L	04/21/17 08:04	05/15/17 08:12	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	95.6		40 - 110					04/21/17 08:04	05/15/17 08:12	1

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.00815	U	0.198	0.198	1.00	0.355	pCi/L	04/21/17 09:28	05/10/17 11:09	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	95.6		40 - 110					04/21/17 09:28	05/10/17 11:09	1
Y Carrier	85.6		40 - 110					04/21/17 09:28	05/10/17 11:09	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	-0.00846	U	0.204	0.204	5.00	0.355	pCi/L		05/16/17 18:11	1

Client Sample Results

Client: Southern Company
Project/Site: CCR - Plant Scherer

TestAmerica Job ID: 400-136455-2
SDG: Ash Pond

Client Sample ID: SGWC-18

Lab Sample ID: 400-136455-27

Date Collected: 04/13/17 13:30

Matrix: Water

Date Received: 04/15/17 08:25

Method: 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.000944	U	0.0626	0.0626	1.00	0.131	pCi/L	04/21/17 08:04	05/15/17 08:12	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	89.7		40 - 110					04/21/17 08:04	05/15/17 08:12	1

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	-0.00235	U	0.199	0.199	1.00	0.363	pCi/L	04/21/17 09:28	05/10/17 11:09	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	89.7		40 - 110					04/21/17 09:28	05/10/17 11:09	1
Y Carrier	83.4		40 - 110					04/21/17 09:28	05/10/17 11:09	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	-0.00140	U	0.209	0.209	5.00	0.363	pCi/L		05/16/17 18:11	1

Client Sample Results

Client: Southern Company
Project/Site: CCR - Plant Scherer

TestAmerica Job ID: 400-136455-2
SDG: Ash Pond

Client Sample ID: SGWC-19

Lab Sample ID: 400-136455-28

Date Collected: 04/13/17 13:40

Matrix: Water

Date Received: 04/15/17 08:25

Method: 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.0422	U	0.0624	0.0625	1.00	0.107	pCi/L	04/21/17 08:04	05/15/17 08:12	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	86.7		40 - 110					04/21/17 08:04	05/15/17 08:12	1

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.0848	U	0.219	0.219	1.00	0.379	pCi/L	04/21/17 09:28	05/10/17 11:09	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	86.7		40 - 110					04/21/17 09:28	05/10/17 11:09	1
Y Carrier	82.2		40 - 110					04/21/17 09:28	05/10/17 11:09	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	0.127	U	0.227	0.227	5.00	0.379	pCi/L		05/16/17 18:11	1

Client Sample Results

Client: Southern Company
Project/Site: CCR - Plant Scherer

TestAmerica Job ID: 400-136455-2
SDG: Ash Pond

Client Sample ID: SGWC-20

Lab Sample ID: 400-136455-29

Date Collected: 04/13/17 11:35

Matrix: Water

Date Received: 04/15/17 08:25

Method: 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.149		0.101	0.102	1.00	0.140	pCi/L	04/21/17 08:04	05/15/17 08:12	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	89.4		40 - 110					04/21/17 08:04	05/15/17 08:12	1

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.0391	U	0.246	0.246	1.00	0.434	pCi/L	04/21/17 09:28	05/10/17 11:09	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	89.4		40 - 110					04/21/17 09:28	05/10/17 11:09	1
Y Carrier	81.1		40 - 110					04/21/17 09:28	05/10/17 11:09	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	0.189	U	0.266	0.267	5.00	0.434	pCi/L		05/16/17 18:11	1

Client Sample Results

Client: Southern Company
Project/Site: CCR - Plant Scherer

TestAmerica Job ID: 400-136455-2
SDG: Ash Pond

Client Sample ID: SGWC-21

Lab Sample ID: 400-136455-30

Date Collected: 04/13/17 09:58

Matrix: Water

Date Received: 04/15/17 08:25

Method: 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.0369	U	0.0696	0.0697	1.00	0.125	pCi/L	04/21/17 08:04	05/15/17 08:12	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	93.2		40 - 110					04/21/17 08:04	05/15/17 08:12	1

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.250	U	0.219	0.221	1.00	0.350	pCi/L	04/21/17 09:28	05/10/17 11:10	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	93.2		40 - 110					04/21/17 09:28	05/10/17 11:10	1
Y Carrier	86.4		40 - 110					04/21/17 09:28	05/10/17 11:10	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	0.287	U	0.230	0.231	5.00	0.350	pCi/L		05/16/17 18:11	1

Client Sample Results

Client: Southern Company
 Project/Site: CCR - Plant Scherer

TestAmerica Job ID: 400-136455-2
 SDG: Ash Pond

Client Sample ID: SGWC-22

Lab Sample ID: 400-136455-31

Date Collected: 04/13/17 10:25

Matrix: Water

Date Received: 04/15/17 08:25

Method: 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.0122	U	0.0602	0.0602	1.00	0.119	pCi/L	04/21/17 08:04	05/15/17 08:12	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	96.2		40 - 110					04/21/17 08:04	05/15/17 08:12	1

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.288	U	0.293	0.294	1.00	0.478	pCi/L	04/21/17 09:28	05/10/17 11:10	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	96.2		40 - 110					04/21/17 09:28	05/10/17 11:10	1
Y Carrier	81.1		40 - 110					04/21/17 09:28	05/10/17 11:10	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	0.300	U	0.299	0.300	5.00	0.478	pCi/L		05/16/17 18:11	1

Client Sample Results

Client: Southern Company
Project/Site: CCR - Plant Scherer

TestAmerica Job ID: 400-136455-2
SDG: Ash Pond

Client Sample ID: SGWC-23

Lab Sample ID: 400-136455-32

Date Collected: 04/13/17 09:10

Matrix: Water

Date Received: 04/15/17 08:25

Method: 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.0454	U	0.0759	0.0760	1.00	0.133	pCi/L	04/21/17 08:04	05/15/17 08:12	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	93.8		40 - 110					04/21/17 08:04	05/15/17 08:12	1

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.367		0.231	0.233	1.00	0.347	pCi/L	04/21/17 09:28	05/10/17 11:12	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	93.8		40 - 110					04/21/17 09:28	05/10/17 11:12	1
Y Carrier	77.4		40 - 110					04/21/17 09:28	05/10/17 11:12	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	0.413		0.243	0.245	5.00	0.347	pCi/L		05/16/17 18:11	1

Client Sample Results

Client: Southern Company
Project/Site: CCR - Plant Scherer

TestAmerica Job ID: 400-136455-2
SDG: Ash Pond

Client Sample ID: FB-3(AP)

Lab Sample ID: 400-136455-33

Date Collected: 04/13/17 09:00

Matrix: Water

Date Received: 04/15/17 08:25

Method: 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.0131	U	0.0551	0.0551	1.00	0.111	pCi/L	04/21/17 08:04	05/15/17 08:12	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	92.3		40 - 110					04/21/17 08:04	05/15/17 08:12	1

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.623		0.262	0.268	1.00	0.371	pCi/L	04/21/17 09:28	05/10/17 11:12	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	92.3		40 - 110					04/21/17 09:28	05/10/17 11:12	1
Y Carrier	88.2		40 - 110					04/21/17 09:28	05/10/17 11:12	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	0.636		0.268	0.274	5.00	0.371	pCi/L		05/16/17 18:11	1

Client Sample Results

Client: Southern Company
Project/Site: CCR - Plant Scherer

TestAmerica Job ID: 400-136455-2
SDG: Ash Pond

Client Sample ID: EB-3(AP)

Date Collected: 04/13/17 14:00

Date Received: 04/15/17 08:25

Lab Sample ID: 400-136455-34

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	0.00813	U	0.0658	0.0658	1.00	0.129	pCi/L	04/21/17 08:04	05/15/17 08:18	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	97.1		40 - 110					04/21/17 08:04	05/15/17 08:18	1

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.422		0.214	0.218	1.00	0.309	pCi/L	04/21/17 09:28	05/10/17 11:12	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	97.1		40 - 110					04/21/17 09:28	05/10/17 11:12	1
Y Carrier	85.2		40 - 110					04/21/17 09:28	05/10/17 11:12	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	0.430		0.224	0.227	5.00	0.309	pCi/L		05/16/17 18:11	1

Definitions/Glossary

Client: Southern Company
Project/Site: CCR - Plant Scherer

TestAmerica Job ID: 400-136455-2
SDG: Ash Pond

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
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)
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
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)

Lab Chronicle

Client: Southern Company
Project/Site: CCR - Plant Scherer

TestAmerica Job ID: 400-136455-2
SDG: Ash Pond

Client Sample ID: SGWA-24

Date Collected: 04/10/17 16:25

Date Received: 04/12/17 09:40

Lab Sample ID: 400-136455-1

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			304596	04/21/17 07:59	LDE	TAL SL
Total/NA	Analysis	9315		1	308495	05/15/17 05:53	RTM	TAL SL
Total/NA	Prep	PrecSep_0			304689	04/21/17 08:23	LDE	TAL SL
Total/NA	Analysis	9320		1	307788	05/09/17 11:12	ALD	TAL SL
Total/NA	Analysis	Ra226_Ra228		1	308890	05/16/17 18:11	RTM	TAL SL

Client Sample ID: SGWA-4

Date Collected: 04/11/17 16:25

Date Received: 04/13/17 09:01

Lab Sample ID: 400-136455-2

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			304596	04/21/17 07:59	LDE	TAL SL
Total/NA	Analysis	9315		1	308495	05/15/17 05:53	RTM	TAL SL
Total/NA	Prep	PrecSep_0			304689	04/21/17 08:23	LDE	TAL SL
Total/NA	Analysis	9320		1	307788	05/09/17 11:12	ALD	TAL SL
Total/NA	Analysis	Ra226_Ra228		1	308890	05/16/17 18:11	RTM	TAL SL

Client Sample ID: SGWA-5

Date Collected: 04/11/17 15:46

Date Received: 04/13/17 09:01

Lab Sample ID: 400-136455-3

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			304596	04/21/17 07:59	LDE	TAL SL
Total/NA	Analysis	9315		1	308495	05/15/17 05:54	RTM	TAL SL
Total/NA	Prep	PrecSep_0			304689	04/21/17 08:23	LDE	TAL SL
Total/NA	Analysis	9320		1	307788	05/09/17 11:13	ALD	TAL SL
Total/NA	Analysis	Ra226_Ra228		1	308890	05/16/17 18:11	RTM	TAL SL

Client Sample ID: EB-1(AP)

Date Collected: 04/11/17 17:00

Date Received: 04/13/17 09:01

Lab Sample ID: 400-136455-4

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			304596	04/21/17 07:59	LDE	TAL SL
Total/NA	Analysis	9315		1	308495	05/15/17 05:54	RTM	TAL SL
Total/NA	Prep	PrecSep_0			304689	04/21/17 08:23	LDE	TAL SL
Total/NA	Analysis	9320		1	307788	05/09/17 11:13	ALD	TAL SL
Total/NA	Analysis	Ra226_Ra228		1	308890	05/16/17 18:11	RTM	TAL SL

Lab Chronicle

Client: Southern Company
Project/Site: CCR - Plant Scherer

TestAmerica Job ID: 400-136455-2
SDG: Ash Pond

Client Sample ID: SGWA-1

Lab Sample ID: 400-136455-5

Date Collected: 04/11/17 10:35

Matrix: Water

Date Received: 04/13/17 09:01

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			304596	04/21/17 07:59	LDE	TAL SL
Total/NA	Analysis	9315		1	308495	05/15/17 05:54	RTM	TAL SL
Total/NA	Prep	PrecSep_0			304689	04/21/17 08:23	LDE	TAL SL
Total/NA	Analysis	9320		1	307788	05/09/17 11:13	ALD	TAL SL
Total/NA	Analysis	Ra226_Ra228		1	308890	05/16/17 18:11	RTM	TAL SL

Client Sample ID: SGWA-2

Lab Sample ID: 400-136455-6

Date Collected: 04/11/17 11:50

Matrix: Water

Date Received: 04/13/17 09:01

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			304596	04/21/17 07:59	LDE	TAL SL
Total/NA	Analysis	9315		1	308495	05/15/17 05:54	RTM	TAL SL
Total/NA	Prep	PrecSep_0			304689	04/21/17 08:23	LDE	TAL SL
Total/NA	Analysis	9320		1	307788	05/09/17 11:13	ALD	TAL SL
Total/NA	Analysis	Ra226_Ra228		1	308890	05/16/17 18:11	RTM	TAL SL

Client Sample ID: FD-1(AP)

Lab Sample ID: 400-136455-7

Date Collected: 04/11/17 00:00

Matrix: Water

Date Received: 04/13/17 09:01

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			304596	04/21/17 07:59	LDE	TAL SL
Total/NA	Analysis	9315		1	308495	05/15/17 05:54	RTM	TAL SL
Total/NA	Prep	PrecSep_0			304689	04/21/17 08:23	LDE	TAL SL
Total/NA	Analysis	9320		1	307788	05/09/17 11:13	ALD	TAL SL
Total/NA	Analysis	Ra226_Ra228		1	308890	05/16/17 18:11	RTM	TAL SL

Client Sample ID: SGWA-3

Lab Sample ID: 400-136455-8

Date Collected: 04/11/17 15:15

Matrix: Water

Date Received: 04/13/17 09:01

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			304596	04/21/17 07:59	LDE	TAL SL
Total/NA	Analysis	9315		1	308495	05/15/17 05:54	RTM	TAL SL
Total/NA	Prep	PrecSep_0			304689	04/21/17 08:23	LDE	TAL SL
Total/NA	Analysis	9320		1	307788	05/09/17 11:13	ALD	TAL SL
Total/NA	Analysis	Ra226_Ra228		1	308890	05/16/17 18:11	RTM	TAL SL

Lab Chronicle

Client: Southern Company
Project/Site: CCR - Plant Scherer

TestAmerica Job ID: 400-136455-2
SDG: Ash Pond

Client Sample ID: SGWA-25

Lab Sample ID: 400-136455-9

Date Collected: 04/11/17 16:55

Matrix: Water

Date Received: 04/13/17 09:01

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			304596	04/21/17 07:59	LDE	TAL SL
Total/NA	Analysis	9315		1	308495	05/15/17 05:55	RTM	TAL SL
Total/NA	Prep	PrecSep_0			304689	04/21/17 08:23	LDE	TAL SL
Total/NA	Analysis	9320		1	307788	05/09/17 11:13	ALD	TAL SL
Total/NA	Analysis	Ra226_Ra228		1	308890	05/16/17 18:11	RTM	TAL SL

Client Sample ID: SGWC-13

Lab Sample ID: 400-136455-10

Date Collected: 04/12/17 14:00

Matrix: Water

Date Received: 04/14/17 08:44

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			304596	04/21/17 07:59	LDE	TAL SL
Total/NA	Analysis	9315		1	308495	05/15/17 05:55	RTM	TAL SL
Total/NA	Prep	PrecSep_0			304689	04/21/17 08:23	LDE	TAL SL
Total/NA	Analysis	9320		1	307788	05/09/17 11:13	ALD	TAL SL
Total/NA	Analysis	Ra226_Ra228		1	308890	05/16/17 18:11	RTM	TAL SL

Client Sample ID: EB-2(AP)

Lab Sample ID: 400-136455-11

Date Collected: 04/12/17 14:50

Matrix: Water

Date Received: 04/14/17 08:44

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			304596	04/21/17 07:59	LDE	TAL SL
Total/NA	Analysis	9315		1	308495	05/15/17 05:55	RTM	TAL SL
Total/NA	Prep	PrecSep_0			304689	04/21/17 08:23	LDE	TAL SL
Total/NA	Analysis	9320		1	307788	05/09/17 11:13	ALD	TAL SL
Total/NA	Analysis	Ra226_Ra228		1	308890	05/16/17 18:11	RTM	TAL SL

Client Sample ID: SGWC-12

Lab Sample ID: 400-136455-12

Date Collected: 04/12/17 11:30

Matrix: Water

Date Received: 04/14/17 08:44

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			304596	04/21/17 07:59	LDE	TAL SL
Total/NA	Analysis	9315		1	308495	05/15/17 05:55	RTM	TAL SL
Total/NA	Prep	PrecSep_0			304689	04/21/17 08:23	LDE	TAL SL
Total/NA	Analysis	9320		1	307788	05/09/17 11:13	ALD	TAL SL
Total/NA	Analysis	Ra226_Ra228		1	308890	05/16/17 18:11	RTM	TAL SL

Lab Chronicle

Client: Southern Company
Project/Site: CCR - Plant Scherer

TestAmerica Job ID: 400-136455-2
SDG: Ash Pond

Client Sample ID: SGWC-11

Lab Sample ID: 400-136455-13

Date Collected: 04/12/17 10:05

Matrix: Water

Date Received: 04/14/17 08:44

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			304596	04/21/17 07:59	LDE	TAL SL
Total/NA	Analysis	9315		1	308495	05/15/17 05:55	RTM	TAL SL
Total/NA	Prep	PrecSep_0			304689	04/21/17 08:23	LDE	TAL SL
Total/NA	Analysis	9320		1	307788	05/09/17 11:14	ALD	TAL SL
Total/NA	Analysis	Ra226_Ra228		1	308890	05/16/17 18:11	RTM	TAL SL

Client Sample ID: FD-2(AP)

Lab Sample ID: 400-136455-14

Date Collected: 04/12/17 00:00

Matrix: Water

Date Received: 04/14/17 08:44

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			304596	04/21/17 07:59	LDE	TAL SL
Total/NA	Analysis	9315		1	308495	05/15/17 05:55	RTM	TAL SL
Total/NA	Prep	PrecSep_0			304689	04/21/17 08:23	LDE	TAL SL
Total/NA	Analysis	9320		1	307788	05/09/17 11:14	ALD	TAL SL
Total/NA	Analysis	Ra226_Ra228		1	308890	05/16/17 18:11	RTM	TAL SL

Client Sample ID: SGWC-14

Lab Sample ID: 400-136455-15

Date Collected: 04/12/17 14:15

Matrix: Water

Date Received: 04/14/17 08:44

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			304596	04/21/17 07:59	LDE	TAL SL
Total/NA	Analysis	9315		1	308495	05/15/17 05:55	RTM	TAL SL
Total/NA	Prep	PrecSep_0			304689	04/21/17 08:23	LDE	TAL SL
Total/NA	Analysis	9320		1	307788	05/09/17 11:14	ALD	TAL SL
Total/NA	Analysis	Ra226_Ra228		1	308890	05/16/17 18:11	RTM	TAL SL

Client Sample ID: SGWC-10

Lab Sample ID: 400-136455-16

Date Collected: 04/12/17 11:10

Matrix: Water

Date Received: 04/14/17 08:44

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			304596	04/21/17 07:59	LDE	TAL SL
Total/NA	Analysis	9315		1	308495	05/15/17 05:55	RTM	TAL SL
Total/NA	Prep	PrecSep_0			304689	04/21/17 08:23	LDE	TAL SL
Total/NA	Analysis	9320		1	307788	05/09/17 11:14	ALD	TAL SL
Total/NA	Analysis	Ra226_Ra228		1	308890	05/16/17 18:11	RTM	TAL SL

TestAmerica Pensacola

Lab Chronicle

Client: Southern Company
Project/Site: CCR - Plant Scherer

TestAmerica Job ID: 400-136455-2
SDG: Ash Pond

Client Sample ID: FB-2(AP)

Lab Sample ID: 400-136455-17

Date Collected: 04/12/17 10:10

Matrix: Water

Date Received: 04/14/17 08:44

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			304596	04/21/17 07:59	LDE	TAL SL
Total/NA	Analysis	9315		1	308495	05/15/17 05:55	RTM	TAL SL
Total/NA	Prep	PrecSep_0			304689	04/21/17 08:23	LDE	TAL SL
Total/NA	Analysis	9320		1	307788	05/09/17 11:14	ALD	TAL SL
Total/NA	Analysis	Ra226_Ra228		1	308890	05/16/17 18:11	RTM	TAL SL

Client Sample ID: SGWC-8

Lab Sample ID: 400-136455-18

Date Collected: 04/12/17 09:15

Matrix: Water

Date Received: 04/14/17 08:44

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			304596	04/21/17 07:59	LDE	TAL SL
Total/NA	Analysis	9315		1	308498	05/15/17 05:57	ALD	TAL SL
Total/NA	Prep	PrecSep_0			304689	04/21/17 08:23	LDE	TAL SL
Total/NA	Analysis	9320		1	307795	05/09/17 11:15	ALD	TAL SL
Total/NA	Analysis	Ra226_Ra228		1	308890	05/16/17 18:11	RTM	TAL SL

Client Sample ID: FB-1(AP)

Lab Sample ID: 400-136455-19

Date Collected: 04/12/17 09:00

Matrix: Water

Date Received: 04/14/17 08:44

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			304596	04/21/17 07:59	LDE	TAL SL
Total/NA	Analysis	9315		1	308498	05/15/17 05:57	ALD	TAL SL
Total/NA	Prep	PrecSep_0			304689	04/21/17 08:23	LDE	TAL SL
Total/NA	Analysis	9320		1	307795	05/09/17 11:15	ALD	TAL SL
Total/NA	Analysis	Ra226_Ra228		1	308890	05/16/17 18:11	RTM	TAL SL

Client Sample ID: SGWC-6

Lab Sample ID: 400-136455-20

Date Collected: 04/12/17 10:01

Matrix: Water

Date Received: 04/14/17 08:44

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			304596	04/21/17 07:59	LDE	TAL SL
Total/NA	Analysis	9315		1	308498	05/15/17 05:57	ALD	TAL SL
Total/NA	Prep	PrecSep_0			304689	04/21/17 08:23	LDE	TAL SL
Total/NA	Analysis	9320		1	307795	05/09/17 11:15	ALD	TAL SL
Total/NA	Analysis	Ra226_Ra228		1	308890	05/16/17 18:11	RTM	TAL SL

Lab Chronicle

Client: Southern Company
Project/Site: CCR - Plant Scherer

TestAmerica Job ID: 400-136455-2
SDG: Ash Pond

Client Sample ID: SGWC-7

Lab Sample ID: 400-136455-21

Date Collected: 04/12/17 12:11

Matrix: Water

Date Received: 04/14/17 08:44

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			304597	04/21/17 08:04	LDE	TAL SL
Total/NA	Analysis	9315		1	308490	05/15/17 08:11	RTM	TAL SL
Total/NA	Prep	PrecSep_0			304695	04/21/17 09:28	LDE	TAL SL
Total/NA	Analysis	9320		1	307916	05/10/17 11:08	ALD	TAL SL
Total/NA	Analysis	Ra226_Ra228		1	308890	05/16/17 18:11	RTM	TAL SL

Client Sample ID: SGWC-15

Lab Sample ID: 400-136455-22

Date Collected: 04/12/17 15:11

Matrix: Water

Date Received: 04/14/17 08:44

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			304597	04/21/17 08:04	LDE	TAL SL
Total/NA	Analysis	9315		1	308490	05/15/17 08:11	RTM	TAL SL
Total/NA	Prep	PrecSep_0			304695	04/21/17 09:28	LDE	TAL SL
Total/NA	Analysis	9320		1	307916	05/10/17 11:09	ALD	TAL SL
Total/NA	Analysis	Ra226_Ra228		1	308890	05/16/17 18:11	RTM	TAL SL

Client Sample ID: SGWC-9

Lab Sample ID: 400-136455-23

Date Collected: 04/13/17 12:20

Matrix: Water

Date Received: 04/15/17 08:25

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			304597	04/21/17 08:04	LDE	TAL SL
Total/NA	Analysis	9315		1	308490	05/15/17 08:11	RTM	TAL SL
Total/NA	Prep	PrecSep_0			304695	04/21/17 09:28	LDE	TAL SL
Total/NA	Analysis	9320		1	307916	05/10/17 11:09	ALD	TAL SL
Total/NA	Analysis	Ra226_Ra228		1	308890	05/16/17 18:11	RTM	TAL SL

Client Sample ID: SGWC-16

Lab Sample ID: 400-136455-24

Date Collected: 04/13/17 09:40

Matrix: Water

Date Received: 04/15/17 08:25

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			304597	04/21/17 08:04	LDE	TAL SL
Total/NA	Analysis	9315		1	308490	05/15/17 08:11	RTM	TAL SL
Total/NA	Prep	PrecSep_0			304695	04/21/17 09:28	LDE	TAL SL
Total/NA	Analysis	9320		1	307916	05/10/17 11:09	ALD	TAL SL
Total/NA	Analysis	Ra226_Ra228		1	308890	05/16/17 18:11	RTM	TAL SL

Lab Chronicle

Client: Southern Company
Project/Site: CCR - Plant Scherer

TestAmerica Job ID: 400-136455-2
SDG: Ash Pond

Client Sample ID: FD-3(AP)

Lab Sample ID: 400-136455-25

Date Collected: 04/13/17 00:00

Matrix: Water

Date Received: 04/15/17 08:25

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			304597	04/21/17 08:04	LDE	TAL SL
Total/NA	Analysis	9315		1	308490	05/15/17 08:11	RTM	TAL SL
Total/NA	Prep	PrecSep_0			304695	04/21/17 09:28	LDE	TAL SL
Total/NA	Analysis	9320		1	307916	05/10/17 11:09	ALD	TAL SL
Total/NA	Analysis	Ra226_Ra228		1	308890	05/16/17 18:11	RTM	TAL SL

Client Sample ID: SGWC-17

Lab Sample ID: 400-136455-26

Date Collected: 04/13/17 11:30

Matrix: Water

Date Received: 04/15/17 08:25

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			304597	04/21/17 08:04	LDE	TAL SL
Total/NA	Analysis	9315		1	308490	05/15/17 08:12	RTM	TAL SL
Total/NA	Prep	PrecSep_0			304695	04/21/17 09:28	LDE	TAL SL
Total/NA	Analysis	9320		1	307916	05/10/17 11:09	ALD	TAL SL
Total/NA	Analysis	Ra226_Ra228		1	308890	05/16/17 18:11	RTM	TAL SL

Client Sample ID: SGWC-18

Lab Sample ID: 400-136455-27

Date Collected: 04/13/17 13:30

Matrix: Water

Date Received: 04/15/17 08:25

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			304597	04/21/17 08:04	LDE	TAL SL
Total/NA	Analysis	9315		1	308490	05/15/17 08:12	RTM	TAL SL
Total/NA	Prep	PrecSep_0			304695	04/21/17 09:28	LDE	TAL SL
Total/NA	Analysis	9320		1	307916	05/10/17 11:09	ALD	TAL SL
Total/NA	Analysis	Ra226_Ra228		1	308890	05/16/17 18:11	RTM	TAL SL

Client Sample ID: SGWC-19

Lab Sample ID: 400-136455-28

Date Collected: 04/13/17 13:40

Matrix: Water

Date Received: 04/15/17 08:25

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			304597	04/21/17 08:04	LDE	TAL SL
Total/NA	Analysis	9315		1	308490	05/15/17 08:12	RTM	TAL SL
Total/NA	Prep	PrecSep_0			304695	04/21/17 09:28	LDE	TAL SL
Total/NA	Analysis	9320		1	307916	05/10/17 11:09	ALD	TAL SL
Total/NA	Analysis	Ra226_Ra228		1	308890	05/16/17 18:11	RTM	TAL SL

Lab Chronicle

Client: Southern Company
Project/Site: CCR - Plant Scherer

TestAmerica Job ID: 400-136455-2
SDG: Ash Pond

Client Sample ID: SGWC-20

Lab Sample ID: 400-136455-29

Date Collected: 04/13/17 11:35

Matrix: Water

Date Received: 04/15/17 08:25

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			304597	04/21/17 08:04	LDE	TAL SL
Total/NA	Analysis	9315		1	308490	05/15/17 08:12	RTM	TAL SL
Total/NA	Prep	PrecSep_0			304695	04/21/17 09:28	LDE	TAL SL
Total/NA	Analysis	9320		1	307916	05/10/17 11:09	ALD	TAL SL
Total/NA	Analysis	Ra226_Ra228		1	308890	05/16/17 18:11	RTM	TAL SL

Client Sample ID: SGWC-21

Lab Sample ID: 400-136455-30

Date Collected: 04/13/17 09:58

Matrix: Water

Date Received: 04/15/17 08:25

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			304597	04/21/17 08:04	LDE	TAL SL
Total/NA	Analysis	9315		1	308490	05/15/17 08:12	RTM	TAL SL
Total/NA	Prep	PrecSep_0			304695	04/21/17 09:28	LDE	TAL SL
Total/NA	Analysis	9320		1	307916	05/10/17 11:10	ALD	TAL SL
Total/NA	Analysis	Ra226_Ra228		1	308890	05/16/17 18:11	RTM	TAL SL

Client Sample ID: SGWC-22

Lab Sample ID: 400-136455-31

Date Collected: 04/13/17 10:25

Matrix: Water

Date Received: 04/15/17 08:25

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			304597	04/21/17 08:04	LDE	TAL SL
Total/NA	Analysis	9315		1	308490	05/15/17 08:12	RTM	TAL SL
Total/NA	Prep	PrecSep_0			304695	04/21/17 09:28	LDE	TAL SL
Total/NA	Analysis	9320		1	307916	05/10/17 11:10	ALD	TAL SL
Total/NA	Analysis	Ra226_Ra228		1	308890	05/16/17 18:11	RTM	TAL SL

Client Sample ID: SGWC-23

Lab Sample ID: 400-136455-32

Date Collected: 04/13/17 09:10

Matrix: Water

Date Received: 04/15/17 08:25

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			304597	04/21/17 08:04	LDE	TAL SL
Total/NA	Analysis	9315		1	308490	05/15/17 08:12	RTM	TAL SL
Total/NA	Prep	PrecSep_0			304695	04/21/17 09:28	LDE	TAL SL
Total/NA	Analysis	9320		1	307912	05/10/17 11:12	ALD	TAL SL
Total/NA	Analysis	Ra226_Ra228		1	308890	05/16/17 18:11	RTM	TAL SL

Lab Chronicle

Client: Southern Company
Project/Site: CCR - Plant Scherer

TestAmerica Job ID: 400-136455-2
SDG: Ash Pond

Client Sample ID: FB-3(AP)

Lab Sample ID: 400-136455-33

Date Collected: 04/13/17 09:00

Matrix: Water

Date Received: 04/15/17 08:25

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			304597	04/21/17 08:04	LDE	TAL SL
Total/NA	Analysis	9315		1	308490	05/15/17 08:12	RTM	TAL SL
Total/NA	Prep	PrecSep_0			304695	04/21/17 09:28	LDE	TAL SL
Total/NA	Analysis	9320		1	307912	05/10/17 11:12	ALD	TAL SL
Total/NA	Analysis	Ra226_Ra228		1	308890	05/16/17 18:11	RTM	TAL SL

Client Sample ID: EB-3(AP)

Lab Sample ID: 400-136455-34

Date Collected: 04/13/17 14:00

Matrix: Water

Date Received: 04/15/17 08:25

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			304597	04/21/17 08:04	LDE	TAL SL
Total/NA	Analysis	9315		1	308495	05/15/17 08:18	RTM	TAL SL
Total/NA	Prep	PrecSep_0			304695	04/21/17 09:28	LDE	TAL SL
Total/NA	Analysis	9320		1	307912	05/10/17 11:12	ALD	TAL SL
Total/NA	Analysis	Ra226_Ra228		1	308890	05/16/17 18:11	RTM	TAL SL

Laboratory References:

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

QC Association Summary

Client: Southern Company
Project/Site: CCR - Plant Scherer

TestAmerica Job ID: 400-136455-2
SDG: Ash Pond

Rad

Prep Batch: 304596

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-136455-1	SGWA-24	Total/NA	Water	PrecSep-21	
400-136455-2	SGWA-4	Total/NA	Water	PrecSep-21	
400-136455-3	SGWA-5	Total/NA	Water	PrecSep-21	
400-136455-4	EB-1(AP)	Total/NA	Water	PrecSep-21	
400-136455-5	SGWA-1	Total/NA	Water	PrecSep-21	
400-136455-6	SGWA-2	Total/NA	Water	PrecSep-21	
400-136455-7	FD-1(AP)	Total/NA	Water	PrecSep-21	
400-136455-8	SGWA-3	Total/NA	Water	PrecSep-21	
400-136455-9	SGWA-25	Total/NA	Water	PrecSep-21	
400-136455-10	SGWC-13	Total/NA	Water	PrecSep-21	
400-136455-11	EB-2(AP)	Total/NA	Water	PrecSep-21	
400-136455-12	SGWC-12	Total/NA	Water	PrecSep-21	
400-136455-13	SGWC-11	Total/NA	Water	PrecSep-21	
400-136455-14	FD-2(AP)	Total/NA	Water	PrecSep-21	
400-136455-15	SGWC-14	Total/NA	Water	PrecSep-21	
400-136455-16	SGWC-10	Total/NA	Water	PrecSep-21	
400-136455-17	FB-2(AP)	Total/NA	Water	PrecSep-21	
400-136455-18	SGWC-8	Total/NA	Water	PrecSep-21	
400-136455-19	FB-1(AP)	Total/NA	Water	PrecSep-21	
400-136455-20	SGWC-6	Total/NA	Water	PrecSep-21	
MB 160-304596/1-A	Method Blank	Total/NA	Water	PrecSep-21	
LCS 160-304596/2-A	Lab Control Sample	Total/NA	Water	PrecSep-21	
400-136455-3 DU	SGWA-5	Total/NA	Water	PrecSep-21	

Prep Batch: 304597

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-136455-21	SGWC-7	Total/NA	Water	PrecSep-21	
400-136455-22	SGWC-15	Total/NA	Water	PrecSep-21	
400-136455-23	SGWC-9	Total/NA	Water	PrecSep-21	
400-136455-24	SGWC-16	Total/NA	Water	PrecSep-21	
400-136455-25	FD-3(AP)	Total/NA	Water	PrecSep-21	
400-136455-26	SGWC-17	Total/NA	Water	PrecSep-21	
400-136455-27	SGWC-18	Total/NA	Water	PrecSep-21	
400-136455-28	SGWC-19	Total/NA	Water	PrecSep-21	
400-136455-29	SGWC-20	Total/NA	Water	PrecSep-21	
400-136455-30	SGWC-21	Total/NA	Water	PrecSep-21	
400-136455-31	SGWC-22	Total/NA	Water	PrecSep-21	
400-136455-32	SGWC-23	Total/NA	Water	PrecSep-21	
400-136455-33	FB-3(AP)	Total/NA	Water	PrecSep-21	
400-136455-34	EB-3(AP)	Total/NA	Water	PrecSep-21	
MB 160-304597/1-A	Method Blank	Total/NA	Water	PrecSep-21	
LCS 160-304597/2-A	Lab Control Sample	Total/NA	Water	PrecSep-21	
400-136455-21 DU	SGWC-7	Total/NA	Water	PrecSep-21	
400-136455-29 DU	SGWC-20	Total/NA	Water	PrecSep-21	

Prep Batch: 304689

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-136455-1	SGWA-24	Total/NA	Water	PrecSep_0	
400-136455-2	SGWA-4	Total/NA	Water	PrecSep_0	
400-136455-3	SGWA-5	Total/NA	Water	PrecSep_0	
400-136455-4	EB-1(AP)	Total/NA	Water	PrecSep_0	

TestAmerica Pensacola

QC Association Summary

Client: Southern Company
Project/Site: CCR - Plant Scherer

TestAmerica Job ID: 400-136455-2
SDG: Ash Pond

Rad (Continued)

Prep Batch: 304689 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-136455-5	SGWA-1	Total/NA	Water	PrecSep_0	
400-136455-6	SGWA-2	Total/NA	Water	PrecSep_0	
400-136455-7	FD-1(AP)	Total/NA	Water	PrecSep_0	
400-136455-8	SGWA-3	Total/NA	Water	PrecSep_0	
400-136455-9	SGWA-25	Total/NA	Water	PrecSep_0	
400-136455-10	SGWC-13	Total/NA	Water	PrecSep_0	
400-136455-11	EB-2(AP)	Total/NA	Water	PrecSep_0	
400-136455-12	SGWC-12	Total/NA	Water	PrecSep_0	
400-136455-13	SGWC-11	Total/NA	Water	PrecSep_0	
400-136455-14	FD-2(AP)	Total/NA	Water	PrecSep_0	
400-136455-15	SGWC-14	Total/NA	Water	PrecSep_0	
400-136455-16	SGWC-10	Total/NA	Water	PrecSep_0	
400-136455-17	FB-2(AP)	Total/NA	Water	PrecSep_0	
400-136455-18	SGWC-8	Total/NA	Water	PrecSep_0	
400-136455-19	FB-1(AP)	Total/NA	Water	PrecSep_0	
400-136455-20	SGWC-6	Total/NA	Water	PrecSep_0	
MB 160-304689/1-A	Method Blank	Total/NA	Water	PrecSep_0	
LCS 160-304689/2-A	Lab Control Sample	Total/NA	Water	PrecSep_0	
400-136455-3 DU	SGWA-5	Total/NA	Water	PrecSep_0	

Prep Batch: 304695

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-136455-21	SGWC-7	Total/NA	Water	PrecSep_0	
400-136455-22	SGWC-15	Total/NA	Water	PrecSep_0	
400-136455-23	SGWC-9	Total/NA	Water	PrecSep_0	
400-136455-24	SGWC-16	Total/NA	Water	PrecSep_0	
400-136455-25	FD-3(AP)	Total/NA	Water	PrecSep_0	
400-136455-26	SGWC-17	Total/NA	Water	PrecSep_0	
400-136455-27	SGWC-18	Total/NA	Water	PrecSep_0	
400-136455-28	SGWC-19	Total/NA	Water	PrecSep_0	
400-136455-29	SGWC-20	Total/NA	Water	PrecSep_0	
400-136455-30	SGWC-21	Total/NA	Water	PrecSep_0	
400-136455-31	SGWC-22	Total/NA	Water	PrecSep_0	
400-136455-32	SGWC-23	Total/NA	Water	PrecSep_0	
400-136455-33	FB-3(AP)	Total/NA	Water	PrecSep_0	
400-136455-34	EB-3(AP)	Total/NA	Water	PrecSep_0	
MB 160-304695/1-A	Method Blank	Total/NA	Water	PrecSep_0	
LCS 160-304695/2-A	Lab Control Sample	Total/NA	Water	PrecSep_0	
400-136455-21 DU	SGWC-7	Total/NA	Water	PrecSep_0	
400-136455-29 DU	SGWC-20	Total/NA	Water	PrecSep_0	

QC Sample Results

Client: Southern Company
Project/Site: CCR - Plant Scherer

TestAmerica Job ID: 400-136455-2
SDG: Ash Pond

Method: 9315 - Radium-226 (GFPC)

Lab Sample ID: MB 160-304596/1-A
Matrix: Water
Analysis Batch: 308495

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 304596

Analyte	MB Result	MB Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.03198	U	0.0704	0.0705	1.00	0.127	pCi/L	04/21/17 07:59	05/15/17 05:53	1
Carrier	MB %Yield	MB Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	91.4		40 - 110					04/21/17 07:59	05/15/17 05:53	1

Lab Sample ID: LCS 160-304596/2-A
Matrix: Water
Analysis Batch: 308495

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 304596

Analyte	Spike Added	LCS Result	LCS Qual	Total Uncert. (2σ+/-)	RL	MDC	Unit	%Rec	%Rec. Limits
Radium-226	11.4	10.31		1.09	1.00	0.121	pCi/L	91	68 - 137
Carrier	LCS %Yield	LCS Qualifier	Limits						
Ba Carrier	89.4		40 - 110						

Lab Sample ID: 400-136455-3 DU
Matrix: Water
Analysis Batch: 308495

Client Sample ID: SGWA-5
Prep Type: Total/NA
Prep Batch: 304596

Analyte	Sample Result	Sample Qual	DU Result	DU Qual	Total Uncert. (2σ+/-)	RL	MDC	Unit	RER	RER Limit
Radium-226	0.0114	U	0.06509	U	0.0730	1.00	0.117	pCi/L	0.41	1
Carrier	DU %Yield	DU Qualifier	Limits							
Ba Carrier	92.0		40 - 110							

Lab Sample ID: MB 160-304597/1-A
Matrix: Water
Analysis Batch: 308490

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 304597

Analyte	MB Result	MB Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.02109	U	0.0577	0.0577	1.00	0.110	pCi/L	04/21/17 08:04	05/15/17 08:10	1
Carrier	MB %Yield	MB Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	92.3		40 - 110					04/21/17 08:04	05/15/17 08:10	1

Lab Sample ID: LCS 160-304597/2-A
Matrix: Water
Analysis Batch: 308490

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 304597

Analyte	Spike Added	LCS Result	LCS Qual	Total Uncert. (2σ+/-)	RL	MDC	Unit	%Rec	%Rec. Limits
Radium-226	11.4	10.05		1.09	1.00	0.132	pCi/L	88	68 - 137

TestAmerica Pensacola

QC Sample Results

Client: Southern Company
Project/Site: CCR - Plant Scherer

TestAmerica Job ID: 400-136455-2
SDG: Ash Pond

Method: 9315 - Radium-226 (GFPC) (Continued)

Lab Sample ID: LCS 160-304597/2-A
Matrix: Water
Analysis Batch: 308490

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 304597

	LCS	LCS	
Carrier	%Yield	Qualifier	Limits
Ba Carrier	93.5		40 - 110

Lab Sample ID: 400-136455-21 DU
Matrix: Water
Analysis Batch: 308490

Client Sample ID: SGWC-7
Prep Type: Total/NA
Prep Batch: 304597

Analyte	Sample Result	Sample Qual	DU Result	DU Qual	Total Uncert. (2σ+/-)	RL	MDC	Unit	RER	RER Limit
Radium-226	0.0164	U	0.08101	U	0.0875	1.00	0.139	pCi/L	0.40	1

	DU	DU	
Carrier	%Yield	Qualifier	Limits
Ba Carrier	82.3		40 - 110

Lab Sample ID: 400-136455-29 DU
Matrix: Water
Analysis Batch: 308490

Client Sample ID: SGWC-20
Prep Type: Total/NA
Prep Batch: 304597

Analyte	Sample Result	Sample Qual	DU Result	DU Qual	Total Uncert. (2σ+/-)	RL	MDC	Unit	RER	RER Limit
Radium-226	0.149		0.06029	U	0.0744	1.00	0.122	pCi/L	0.51	1

	DU	DU	
Carrier	%Yield	Qualifier	Limits
Ba Carrier	95.3		40 - 110

Method: 9320 - Radium-228 (GFPC)

Lab Sample ID: MB 160-304689/1-A
Matrix: Water
Analysis Batch: 307788

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 304689

Analyte	MB Result	MB Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.2538	U	0.254	0.255	1.00	0.412	pCi/L	04/21/17 08:23	05/09/17 11:12	1

	MB	MB	Limits	Prepared	Analyzed	Dil Fac
Carrier	%Yield	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Ba Carrier	91.4		40 - 110	04/21/17 08:23	05/09/17 11:12	1
Y Carrier	83.0		40 - 110	04/21/17 08:23	05/09/17 11:12	1

Lab Sample ID: LCS 160-304689/2-A
Matrix: Water
Analysis Batch: 307788

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 304689

Analyte	Spike Added	LCS Result	LCS Qual	Total Uncert. (2σ+/-)	RL	MDC	Unit	%Rec	%Rec. Limits
Radium-228	13.5	15.09		1.62	1.00	0.372	pCi/L	112	56 - 140

TestAmerica Pensacola

QC Sample Results

Client: Southern Company
Project/Site: CCR - Plant Scherer

TestAmerica Job ID: 400-136455-2
SDG: Ash Pond

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

Lab Sample ID: LCS 160-304689/2-A
Matrix: Water
Analysis Batch: 307788

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 304689

Carrier	LCS %Yield	LCS Qualifier	Limits
Ba Carrier	89.4		40 - 110
Y Carrier	87.9		40 - 110

Lab Sample ID: 400-136455-3 DU
Matrix: Water
Analysis Batch: 307788

Client Sample ID: SGWA-5
Prep Type: Total/NA
Prep Batch: 304689

Analyte	Sample Result	Sample Qual	DU Result	DU Qual	Total Uncert. (2σ+/-)	RL	MDC	Unit	RER	RER Limit
Radium-228	0.208	U	0.1809	U	0.243	1.00	0.403	pCi/L	0.06	1

Carrier	DU %Yield	DU Qualifier	Limits
Ba Carrier	92.0		40 - 110
Y Carrier	87.1		40 - 110

Lab Sample ID: MB 160-304695/1-A
Matrix: Water
Analysis Batch: 307916

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 304695

Analyte	MB Result	MB Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.04818	U	0.234	0.234	1.00	0.410	pCi/L	04/21/17 09:28	05/10/17 11:08	1

Carrier	MB %Yield	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
Ba Carrier	92.3		40 - 110	04/21/17 09:28	05/10/17 11:08	1
Y Carrier	86.4		40 - 110	04/21/17 09:28	05/10/17 11:08	1

Lab Sample ID: LCS 160-304695/2-A
Matrix: Water
Analysis Batch: 307916

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 304695

Analyte	Spike Added	LCS Result	LCS Qual	Total Uncert. (2σ+/-)	RL	MDC	Unit	%Rec	%Rec. Limits
Radium-228	13.5	15.73		1.67	1.00	0.382	pCi/L	117	56 - 140

Carrier	LCS %Yield	LCS Qualifier	Limits
Ba Carrier	93.5		40 - 110
Y Carrier	87.1		40 - 110

Lab Sample ID: 400-136455-21 DU
Matrix: Water
Analysis Batch: 307916

Client Sample ID: SGWC-7
Prep Type: Total/NA
Prep Batch: 304695

Analyte	Sample Result	Sample Qual	DU Result	DU Qual	Total Uncert. (2σ+/-)	RL	MDC	Unit	RER	RER Limit
Radium-228	0.190	U	0.03335	U	0.213	1.00	0.378	pCi/L	0.35	1

TestAmerica Pensacola

QC Sample Results

Client: Southern Company
Project/Site: CCR - Plant Scherer

TestAmerica Job ID: 400-136455-2
SDG: Ash Pond

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

Lab Sample ID: 400-136455-21 DU
Matrix: Water
Analysis Batch: 307916

Client Sample ID: SGWC-7
Prep Type: Total/NA
Prep Batch: 304695

	DU	DU	
Carrier	%Yield	Qualifier	Limits
Ba Carrier	82.3		40 - 110
Y Carrier	90.5		40 - 110

Lab Sample ID: 400-136455-29 DU
Matrix: Water
Analysis Batch: 307916

Client Sample ID: SGWC-20
Prep Type: Total/NA
Prep Batch: 304695

Analyte	Sample Result	Sample Qual	DU Result	DU Qual	Total Uncert. (2σ+/-)	RL	MDC	Unit	RER	
									RER	Limit
Radium-228	0.0391	U	0.1986	U	0.237	1.00	0.390	pCi/L	0.33	1

	DU	DU	
Carrier	%Yield	Qualifier	Limits
Ba Carrier	95.3		40 - 110
Y Carrier	80.0		40 - 110

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

Lab Sample ID: 400-136455-3 DU
Matrix: Water
Analysis Batch: 308890

Client Sample ID: SGWA-5
Prep Type: Total/NA

Analyte	Sample Result	Sample Qual	DU Result	DU Qual	Total Uncert. (2σ+/-)	RL	MDC	Unit	RER	
									RER	Limit
Combined Radium 226 + 228	0.219	U	0.2460	U	0.253	5.00	0.403	pCi/L	0.06	

Lab Sample ID: 400-136455-21 DU
Matrix: Water
Analysis Batch: 308890

Client Sample ID: SGWC-7
Prep Type: Total/NA

Analyte	Sample Result	Sample Qual	DU Result	DU Qual	Total Uncert. (2σ+/-)	RL	MDC	Unit	RER	
									RER	Limit
Combined Radium 226 + 228	0.206	U	0.1144	U	0.230	5.00	0.378	pCi/L	0.19	

Lab Sample ID: 400-136455-29 DU
Matrix: Water
Analysis Batch: 308890

Client Sample ID: SGWC-20
Prep Type: Total/NA


Analyte	Sample Result	Sample Qual	DU Result	DU Qual	Total Uncert. (2σ+/-)	RL	MDC	Unit	RER	
									RER	Limit
Combined Radium 226 + 228	0.189	U	0.2589	U	0.248	5.00	0.390	pCi/L	0.14	

TestAmerica Pensacola

TestAmerica Pensacola
 3355 McLemore Drive
 Pensacola, FL 32514
 Phone (850) 474-1001 Fax (850) 478-2871

Chain of Custody Record

TestAmerica
 THE LEADER IN ENVIRONMENTAL TESTING

Client Information Company: Southern Company Address: 241 Ralph McGill Blvd SE B10185 City: Atlanta State, Zip: GA, 30308 Phone: Email: JAbraham@southernco.com Project Name: CCR - Scherer Site: Ash Pond		Lab Pkt: Whitnire, Cheyenne R E-Mail: cheyenne.whitnire@testamericainc.com		Carrier Tracking No(s): COC No: 400-57303-24790 Page: 1 of 1 Job #: 400-136455	
Date Requested: TAT Requested (days): PO #: GPC10624814 WO #: Project #: 40007041 SSOIW#:		Analysis Requested  400-136455 COC			
Sample Identification Sample ID: SGWA-24 Sample Date: 4/10/17 Sample Time: 1625 Matrix: Water		Field Filtered Sample (Yes or No): 2640C-TDS, 300_ORGFM_28D-Chloride, Fluoride, Sulfate 8020-Sp,As,Ba,Pb,Cd,Cr,Cu,Pb,LI,Mn,Se,NI,7470A-Hg 8316_Ra226,8320_Ra228, Ra228Ra228,GFPo			
Possible Hazard Identification <input type="checkbox"/> Non-Hazard <input type="checkbox"/> Flammable <input type="checkbox"/> Skin Irritant <input type="checkbox"/> Poison B <input type="checkbox"/> Unknown <input type="checkbox"/> Radiological		Special Instructions/Note: Total Number of Containers: 3 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 Other: M - Hexane N - None O - AsNaCO2 P - Na2OAS Q - Na2SO3 R - Na2S2O3 S - H2SO4 T - TSF Dodecylhydrate U - Acetone V - MCAA W - RI 4-5 X - EDTA Z - other (specify)			
Empty Kit Relinquished by: Relinquished by: Ben Hodges Relinquished by: M. BAH Relinquished by:		Sample Disposal (A fee may be assessed if samples are retained longer than 1 month) <input type="checkbox"/> Return To Client <input type="checkbox"/> Disposal By Lab <input type="checkbox"/> Archive For _____ Months Special Instructions/QC Requirements:			
Relinquished by: Relinquished by: M. BAH Relinquished by:		Method of Shipment: Date/Time: 4/11/17 8:00 Date/Time: 4/11/17 10:00 Date/Time: 4/11/17 3940 Company: C-NOW Company: Company Company: Company			
Custody Seals Intact: A Yes Δ No		Cooler Temperature(s) °C and Other Remarks:			


681-Atlanta

- 1
- 2
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- 10
- 11
- 12

TestAmerica Pensacola
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 Pensacola, FL 32514
 Phone (850) 474-1001 Fax (850) 478-2671

681-Atlanta
Chain of Custody Record

TestAmerica
 THE LEADER IN ENVIRONMENTAL TESTING

Client Information Client Contact: Joju Abraham Company: Southern Company Address: 241 Ralph McGill Blvd SE B10185 City: Atlanta State, Zip: GA, 30308 Phone: [blank] Email: JAbraham@southernco.com Project Name: CCR - Scherer Site: Ash Pond		Lab PM: Whitmore, Cheyenne R. E-Mail: cheyenne.whitmore@testamericainc.com Carrier Tracking No(s): [blank]																																																							
Due Date Requested: [blank] TAT Requested (days): [blank]		Job #: 400-136455 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 Other: [blank]																																																							
PO #: GFC10624814 WC #: [blank]		Analysis Requested  400-136455 COC																																																							
Sample Identification <table border="1"> <thead> <tr> <th>Sample ID</th> <th>Sample Date</th> <th>Sample Time</th> <th>Sample Type (C=Comp, G=grab)</th> <th>Matrix (Water, Soil, Sediment, Other)</th> <th>Special Instructions/Notes</th> </tr> </thead> <tbody> <tr> <td>SGWA-4</td> <td>4/11/17</td> <td>1625</td> <td>G</td> <td>Water</td> <td>Extra Radium</td> </tr> <tr> <td>SGWA-5</td> <td>4/11/17</td> <td>1546</td> <td>G</td> <td>Water</td> <td></td> </tr> <tr> <td>EB-1(AP)</td> <td>4/11/17</td> <td>1700</td> <td>G</td> <td>Water</td> <td></td> </tr> <tr> <td>SGWA-1</td> <td>4/11/17</td> <td>1035</td> <td>G</td> <td>Water</td> <td></td> </tr> <tr> <td>SGWA-2</td> <td>4/11/17</td> <td>1150</td> <td>G</td> <td>Water</td> <td></td> </tr> <tr> <td>FD-1(AP)</td> <td>4/11/17</td> <td>-</td> <td>G</td> <td>Water</td> <td></td> </tr> <tr> <td>SGWA-3</td> <td>4/11/17</td> <td>1515</td> <td>G</td> <td>Water</td> <td></td> </tr> <tr> <td>SGWA-25</td> <td>4/11/17</td> <td>1655</td> <td>G</td> <td>Water</td> <td></td> </tr> </tbody> </table>		Sample ID	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (Water, Soil, Sediment, Other)	Special Instructions/Notes	SGWA-4	4/11/17	1625	G	Water	Extra Radium	SGWA-5	4/11/17	1546	G	Water		EB-1(AP)	4/11/17	1700	G	Water		SGWA-1	4/11/17	1035	G	Water		SGWA-2	4/11/17	1150	G	Water		FD-1(AP)	4/11/17	-	G	Water		SGWA-3	4/11/17	1515	G	Water		SGWA-25	4/11/17	1655	G	Water		Total Number of Containers: 3 Special Instructions/Notes: [blank]	
Sample ID	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (Water, Soil, Sediment, Other)	Special Instructions/Notes																																																				
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Possible Hazard Identification <input type="checkbox"/> Non-Hazard <input type="checkbox"/> Flammable <input type="checkbox"/> Skin Irritant <input type="checkbox"/> Poison B <input type="checkbox"/> Unknown <input type="checkbox"/> Radiological Deliverable Requested: I, II, III, IV, Other (specify) [blank]																																																									
Relinquished by: Ben Hodges Relinquished by: M. B. B. [Signature] Relinquished by: [Signature] Custody Seal No.: [blank]																																																									
Date/Time: 4/12/17 08:00 Date/Time: 4-12-17 10:10 Date/Time: 4-12-17 1:30		Date/Time: 4-12-17 8:15 Date/Time: 4-12-17 10:10 Date/Time: 4-12-17 09:01																																																							
Company: Golder Company: C-NOW Company: TPA		Company: C-NOW Company: TPA Company: [blank]																																																							
Method of Shipment: [blank]																																																									



TestAmerica Pensacola
 3355 McLeMores Drive
 Pensacola, FL 32514
 Phone (850) 474-1001 Fax (850) 478-2671

Chain of Custody Record

TestAmerica
 10000 Highway 90, Suite 100
 Jacksonville, FL 32218
 Phone (904) 250-0000 Fax (904) 250-0001

Client Information		Sampler:		Lab Pk:		Carrier Tracking No(s):		COC No:		
Southern Company		Whitfire, Cheyenne R		Whitfire, Cheyenne R				400-57303-24790		
Address: 241 Ralph McGill Blvd SE B10185		Phone:		E-Mail:				Page: 1 of 1		
City: Atlanta				cheyenne.whitfire@testamericainc.com				Job #: 400-136455		
State: GA, ZIP: 30308		PO #: GPC10524814						Preservation Codes:		
Phone:		WC #: 4007041						A - HCL B - NaOH C - Zn Acetate D - Nitric Acid E - NiSO4 F - MeOH G - Amchlor H - Ascorbic Acid I - Ice J - DI Water K - EDTA L - EDA M - Hexane N - None O - NiSO2 P - Ni2OAS Q - Ni2SO3 R - Na2SO3 S - H2SO4 T - TSP Dodecahydrate U - Acetone V - MCAA W - ph 4.5 X - other (specify)		
Project Name: CCR - Scherer		Project #: 4007041						Total Number of Containers		
Site: Ash Pond		SSOW#: 400-136455						Special Instructions/Note:		
Sample Identification	Sample Date	Sample Time	Sample Type	Matrix	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	2540C-TDS, 300, ORGM, 28D-Chloride, Fluoride, Sulfate	6020-0b,As,Ba,Bi,Bg,Ca,Cd,Cr,Cu,Pb,LI,Mo,Se,Tl,7470A-Hg	9315,Pa228,9320,Pa228,Pa228Ra,Pa228Rn,228,GFPC	
SGWC-13	4/12/17	1400	G	Water	N	N	N	N	N	
EB-2(AP)	4/12/17	1450	G	Water	N	N	N	N	N	
SGWC-12	4/12/17	1130	G	Water	N	N	N	N	N	
SGWC-11	4/12/17	1005	G	Water	N	N	N	N	N	
FD-2(AP)	4/12/17	-	G	Water	N	N	N	N	N	
SGWC-14	4/12/17	1415	G	Water	N	N	N	N	N	
SGWC-10	4/12/17	1110	G	Water	N	N	N	N	N	
FB-2(AP)	4/12/17	1010	G	Water	N	N	N	N	N	
SGWC-8	4/12/17	0915	G	Water	N	N	N	N	N	
FB-1(AP)	4/12/17	0900	G	Water	N	N	N	N	N	
SGWC-6	4/12/17	1001	G	Water	N	N	N	N	N	
SGWC-7	4/12/17	1211	G	Water	N	N	N	N	N	Extra Radium
SGWC-15	4/12/17	1511	G	Water	N	N	N	N	N	

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

Special Instructions/QC Requirements:

Empty Kit Relinquished by: _____ Date: _____
 Relinquished by: Ben Hodges
 Relinquished by: M - BAH Date/Time: 4/13/17 08:00 Company: BAH
 Relinquished by: _____ Date/Time: 4/13/17 10:20 Company: NOW
 Relinquished by: _____ Date/Time: 4/13/17 11:10 Company: ZLO

Custody Seals Intact: _____
 A Yes Δ No

Cooler Temperature(s) °C and Other Remarks: _____

TestAmerica Pensacola
 3355 McLemore Drive
 Pensacola, FL 32514
 Phone (850) 474-1001 Fax (850) 478-2671

681-Atlanta Chain of Custody Record

TestAmerica

Client Information
 Client Contact: Joju Abraham
 Company: Southern Company
 Address: 241 Ralph McGill Blvd SE B10185
 City: Atlanta
 State, Zip: GA, 30308
 Phone: [blank]
 Email: JAbraham@southernco.com
 Project Name: CCR - Scherer
 Site: Ash Pond

Sampler: Whitmire, Cheyenne R
Lab P/N: Whitmire, Cheyenne R
E-Mail: Cheyenne.whitmire@testamericainc.com

COC No: 400-57303-24790
Page: 1 of 1
Job #: [blank]

Carrier Tracking No(s): [blank]

Sample Identification	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Preservation Code	Matrix (Water, Swab, Organic, Air)	Field Filtered Sample (Yes or No)		Perform MS/MSD (Yes or No)		Total Number of Containers		Special Instructions/Note:
						N	D	N	D	N	D	
SGWC-9	4/13/17	1220	G		Water	N	1	1	1	3		
SGWC-16	4/13/17	0940	G		Water	N	1	1	1	3		
FD-3(AP)	4/13/17	--	G		Water	N	1	1	1	3		
SGWC-17	4/13/17	1130	G		Water	N	1	1	1	3		
SGWC-18	4/13/17	1330	G		Water	N	1	1	1	3		
SGWC-19	4/13/17	1340	G		Water	N	1	1	1	3		
SGWC-20	4/13/17	1135	G		Water	N	1	1	2	4		Extra Radium
SGWC-21	4/13/17	0958	G		Water	N	1	1	1	3		
SGWC-22	4/13/17	1025	G		Water	N	1	1	1	3		
SGWC-23	4/13/17	0910	G		Water	N	1	1	1	3		
FB-3(AP)	4/13/17	0800	G		Water	N	1	1	1	3		

Due Date Requested: TAT Requested (days): [blank]

PO #: GPC10624814
WD #: [blank]
Project #: 40007041
SSOW#: [blank]

Analysis Requested

Preservation Codes:
 A - HCL
 B - NaOH
 C - Zn Acetate
 D - Nitric Acid
 E - NaHSO4
 F - MeOH
 G - Anchlor
 H - Ascorbic Acid
 I - Ice
 J - DI Water
 K - EDTA
 L - EDA
 Other: [blank]

Preservation Codes:
 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
 Z - other (specify)

Special Instructions/Note: 400-136455 COC

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

Special Instructions/QC Requirements: [blank]

Possible Hazard Identification
 Non-Hazard Flammable Skin Irritant Poison B Unknown Radiological
 Deliverable Requested: I, II, III, IV, Other (specify)

Empty Kit Relinquished by: Ben Hodges
 Relinquished by: M. BATH
 Relinquished by: M. BATH
 Relinquished by: [blank]

Date: 4/14/17 9:00
 Date/Time: 4/14/17 10:35
 Date/Time: 4/14/17 1040

Company: C. NOW
 Company: C. NOW
 Company: [blank]

Cooler Temperature(s) °C and Other Remarks: 3.8C YR2



Login Sample Receipt Checklist

Client: Southern Company

Job Number: 400-136455-2

SDG Number: Ash Pond

Login Number: 136455

List Number: 1

Creator: Siddoway, Benjamin

List Source: TestAmerica Pensacola

Question	Answer	Comment
Radioactivity wasn't checked or is \leq background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	N/A	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	2.5°C IR-7; 3.0°C, 2.8°C, 4.3°C, 2.1°C, 3.8°C IR-2
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.	False	Received extra samples not listed on COC.
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 <math><6\text{mm}</math> (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: Southern Company
Project/Site: CCR - Plant Scherer

TestAmerica Job ID: 400-136455-2
SDG: Ash Pond

Laboratory: TestAmerica Pensacola

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

Authority	Program	EPA Region	Identification Number	Expiration Date
Alabama	State Program	4	40150	06-30-17
Arizona	State Program	9	AZ0710	01-11-18
Arkansas DEQ	State Program	6	88-0689	09-01-17
California	ELAP	9	2510	03-31-18
Florida	NELAP	4	E81010	06-30-17
Georgia	State Program	4	N/A	06-30-17
Illinois	NELAP	5	200041	10-09-17
Iowa	State Program	7	367	08-01-18
Kansas	NELAP	7	E-10253	10-31-17
Kentucky (UST)	State Program	4	53	06-30-17
Kentucky (WW)	State Program	4	98030	12-31-17
L-A-B	ISO/IEC 17025		L2471	02-22-20
Louisiana	NELAP	6	30976	06-30-17
Louisiana (DW)	NELAP Secondary AB	6	LA170005	12-31-17
Maryland	State Program	3	233	09-30-17
Massachusetts	State Program	1	M-FL094	06-30-17
Michigan	State Program	5	9912	06-30-17
New Jersey	NELAP	2	FL006	06-30-17
North Carolina (WW/SW)	State Program	4	314	12-31-17
Oklahoma	State Program	6	9810	08-31-17
Pennsylvania	NELAP	3	68-00467	01-31-18
Rhode Island	State Program	1	LAO00307	12-30-17
South Carolina	State Program	4	96026	06-30-17
Tennessee	State Program	4	TN02907	06-30-17
Texas	NELAP	6	T104704286-16-10	09-30-17
USDA	Federal		P330-16-00172	05-24-19
Virginia	NELAP	3	460166	06-14-17
Washington	State Program	10	C915	05-15-17 *
West Virginia DEP	State Program	3	136	06-30-17

Laboratory: TestAmerica St. Louis

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

Authority	Program	EPA Region	Identification Number	Expiration Date
Alaska	State Program	10	MO00054	06-30-17 *
California	State Program	9	2886	03-31-18 *
Connecticut	State Program	1	PH-0241	03-31-19
Florida	NELAP	4	E87689	06-30-17 *
Illinois	NELAP	5	200023	11-30-17
Iowa	State Program	7	373	02-01-18
Kansas	NELAP	7	E-10236	10-31-17
Kentucky (DW)	State Program	4	90125	12-31-17
L-A-B	DoD ELAP		L2305	04-06-19
Louisiana	NELAP	6	04080	06-30-17 *
Louisiana (DW)	NELAP	6	LA170011	12-31-17
Maryland	State Program	3	310	09-30-17
Missouri	State Program	7	780	06-30-17 *
Nevada	State Program	9	MO000542017-1	07-31-17
New Jersey	NELAP	2	MO002	06-30-17 *
New York	NELAP	2	11616	03-31-18

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

TestAmerica Pensacola

Accreditation/Certification Summary

Client: Southern Company
Project/Site: CCR - Plant Scherer

TestAmerica Job ID: 400-136455-2
SDG: Ash Pond

Laboratory: TestAmerica St. Louis (Continued)

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

Authority	Program	EPA Region	Identification Number	Expiration Date
North Dakota	State Program	8	R207	06-30-17
NRC	NRC		24-24817-01	12-31-22
Oklahoma	State Program	6	9997	08-31-17
Pennsylvania	NELAP	3	68-00540	02-21-18
South Carolina	State Program	4	85002001	06-30-17 *
Texas	NELAP	6	T104704193-16-10	07-31-17
US Fish & Wildlife	Federal		LE058448-0	10-31-17
USDA	Federal		P330-17-0028	02-02-20
Utah	NELAP	8	MO000542016-8	07-31-17
Virginia	NELAP	3	460230	06-14-17 *
Washington	State Program	10	C592	08-30-17
West Virginia DEP	State Program	3	381	08-31-17 *

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

TestAmerica Pensacola

Product Name: Low-Flow System

Date: 2017-04-11 10:37:02

Project Information:

Operator Name D. Herrera
Company Name Golder Associates
Project Name 1662350
Site Name Plant Scherer
Latitude 0° 0' 0"
Longitude 0° 0' 0"
Sonde SN 364456
Turbidity Make/Model LaMotte

Pump Information:

Pump Model/Type QED
Tubing Type polyethylene
Tubing Diameter 0.17 in
Tubing Length 44.60 ft

Pump placement from TOC 44.60 ft

Well Information:

Well ID SGWA-1
Well diameter 2 in
Well Total Depth 53.40 ft
Screen Length 10 ft
Depth to Water 39.52 ft

Pumping Information:

Final Pumping Rate 200 mL/min
Total System Volume 0.7349517 L
Calculated Sample Rate 300 sec
Stabilization Drawdown 3.36 in
Total Volume Pumped 5 L

Low-Flow Sampling Stabilization Summary

	Time	Elapsed	Temp C	pH	SpCond μ S/cm	Turb NTU	DTW ft	RDO mg/L	ORP mV
Stabilization			+/- 0	+/- 0.1	+/- 5%	+/- 5		+/- 10%	+/- 0
Last 5	10:09:32	300.15	19.05	5.23	33.70	2.81	39.75	1.02	101.72
Last 5	10:14:32	600.41	19.27	5.22	33.20	0.67	39.80	0.42	100.59
Last 5	10:19:32	900.41	19.38	5.20	33.07	0.24	39.80	0.29	106.59
Last 5	10:24:32	1200.41	19.10	5.20	33.29	0.20	39.80	0.25	118.24
Last 5	10:29:32	1500.41	18.96	5.21	33.56	0.17	39.80	0.23	125.97
Variance 0			0.11	-0.01	-0.13			-0.14	6.00
Variance 1			-0.29	0.00	0.22			-0.03	11.65
Variance 2			-0.13	0.00	0.27			-0.02	7.74

Notes

Sampled SGWA-1 on 4/11/17 at 10:35

Grab Samples

Product Name: Low-Flow System

Date: 2017-04-11 11:52:38

Project Information:

Operator Name D. Herrera
Company Name Golder Associates
Project Name 1662350
Site Name Plant Scherer
Latitude 0° 0' 0"
Longitude 0° 0' 0"
Sonde SN 364456
Turbidity Make/Model LaMotte

Pump Information:

Pump Model/Type Dedicated
Tubing Type polyethylene
Tubing Diameter 0.17 in
Tubing Length 100 ft

Pump placement from TOC 91.05 ft

Well Information:

Well ID SGWA-2
Well diameter 2 in
Well Total Depth 98.50 ft
Screen Length 10 ft
Depth to Water 38.75 ft

Pumping Information:

Final Pumping Rate 200 mL/min
Total System Volume 0.9313423 L
Calculated Sample Rate 300 sec
Stabilization Drawdown 26.4 in
Total Volume Pumped 6 L

Low-Flow Sampling Stabilization Summary

	Time	Elapsed	Temp C	pH	SpCond μ S/cm	Turb NTU	DTW ft	RDO mg/L	ORP mV
Stabilization			+/- 0	+/- 0.1	+/- 5%	+/- 5		+/- 10%	+/- 0
Last 5	11:29:28	300.09	21.63	6.39	114.19	0.69	39.75	2.27	93.85
Last 5	11:34:28	600.02	19.73	6.65	118.97	2.69	40.65	4.26	89.84
Last 5	11:39:28	900.02	19.87	6.73	119.08	2.85	40.80	4.45	97.72
Last 5	11:44:28	1200.02	19.83	6.75	119.07	1.44	40.90	4.34	112.12
Last 5	11:49:28	1500.02	19.83	6.75	119.26	1.64	40.95	4.32	133.40
Variance 0			0.14	0.07	0.10			0.19	7.88
Variance 1			-0.04	0.02	-0.01			-0.12	14.40
Variance 2			0.01	0.01	0.19			-0.02	21.28

Notes

Sampled SGWA-1 and FD-1 (AP) on 4/11/2017 at 11:50

Grab Samples

Product Name: Low-Flow System

Date: 2017-04-11 15:16:30

Project Information:

Operator Name D. Herrera
Company Name Golder Associates
Project Name 1662350
Site Name Plant Scherer
Latitude 0° 0' 0"
Longitude 0° 0' 0"
Sonde SN 364456
Turbidity Make/Model LaMotte

Pump Information:

Pump Model/Type QED
Tubing Type polyethylene
Tubing Diameter 0.17 in
Tubing Length 44.7 ft

Pump placement from TOC 44.7 ft

Well Information:

Well ID SGWA-3
Well diameter 2 in
Well Total Depth 52.8 ft
Screen Length 10 ft
Depth to Water 33.28 ft

Pumping Information:

Final Pumping Rate 200 mL/min
Total System Volume 0.7304883 L
Calculated Sample Rate 300 sec
Stabilization Drawdown 60.24 in
Total Volume Pumped 8.0 L

Low-Flow Sampling Stabilization Summary

	Time	Elapsed	Temp C	pH	SpCond μ S/cm	Turb NTU	DTW ft	RDO mg/L	ORP mV
Stabilization			+/- 0	+/- 0.1	+/- 5%	+/- 5		+/- 10%	+/- 0
Last 5	14:51:17	1200.02	22.41	5.67	70.35	0.18	38.10	1.54	198.22
Last 5	14:56:17	1500.02	22.98	5.69	74.32	0.12	38.10	1.58	207.83
Last 5	15:01:17	1800.02	22.78	5.71	76.41	0.15	38.10	1.82	234.23
Last 5	15:06:17	2100.02	21.14	5.71	75.60	0.11	38.30	1.98	267.58
Last 5	15:11:17	2400.02	21.81	5.70	74.28	0.13	38.30	1.97	265.72
Variance 0			-0.20	0.02	2.08			0.23	26.40
Variance 1			-1.64	-0.00	-0.80			0.17	33.35
Variance 2			0.67	-0.00	-1.32			-0.01	-1.87

Notes

Sampled SGWA-3 on 4/11/2017 at 15:15

Grab Samples

Product Name: Low-Flow System

Date: 2017-04-11 16:22:41

Project Information:

Operator Name B. Hodges
Company Name Golder Associates
Project Name 1662350
Site Name Plant Scherer
Latitude 0° 0' 0"
Longitude 0° 0' 0"
Sonde SN 365491
Turbidity Make/Model LaMotte

Pump Information:

Pump Model/Type QED
Tubing Type polyethylene
Tubing Diameter 0.17 in
Tubing Length 54.80 ft

Pump placement from TOC 54.80 ft

Well Information:

Well ID SGWA-4
Well diameter 2 in
Well Total Depth 63.2 ft
Screen Length 10 ft
Depth to Water 49.49 ft

Pumping Information:

Final Pumping Rate 100 mL/min
Total System Volume 0.7295956 L
Calculated Sample Rate 300 sec
Stabilization Drawdown 19.56 in
Total Volume Pumped 3 L

Low-Flow Sampling Stabilization Summary

	Time	Elapsed	Temp C	pH	SpCond μ S/cm	Turb NTU	DTW ft	RDO mg/L	ORP mV
Stabilization			+/- 0	+/- 0.1	+/- 5%	+/- 5		+/- 10%	+/- 0
Last 5	16:01:17	600.03	19.81	6.66	169.03	0.28	50.76	4.96	-43.60
Last 5	16:06:17	900.02	20.26	6.57	163.49	0.18	50.92	4.14	-44.06
Last 5	16:11:17	1200.03	20.38	6.52	164.74	0.10	51.01	3.82	-46.83
Last 5	16:16:16	1499.46	20.92	6.50	164.38	0.12	51.09	3.70	-48.43
Last 5	16:21:16	1799.46	20.57	6.49	168.16	0.13	51.12	3.90	-47.82
Variance 0			0.12	-0.05	1.25			-0.32	-2.77
Variance 1			0.54	-0.02	-0.36			-0.12	-1.59
Variance 2			-0.36	-0.01	3.79			0.20	0.61

Notes

Sampled at 1625

Grab Samples

Product Name: Low-Flow System

Date: 2017-04-11 15:51:10

Project Information:

Operator Name D. Thomas
Company Name Golder Associates
Project Name 1662350
Site Name Plant Scherer
Latitude 0° 0' 0"
Longitude 0° 0' 0"
Sonde SN 456959
Turbidity Make/Model LaMotte

Pump Information:

Pump Model/Type Alexis Peristaltic
Tubing Type Polyethylene
Tubing Diameter 0.17 in
Tubing Length 28 ft

Pump placement from TOC 28 ft

Well Information:

Well ID SGWA-5
Well diameter 2 in
Well Total Depth 33.1 ft
Screen Length 10 ft
Depth to Water 17.16 ft

Pumping Information:

Final Pumping Rate 150 mL/min
Total System Volume 0.2239027 L
Calculated Sample Rate 300 sec
Stabilization Drawdown 5.52 in
Total Volume Pumped 3.75 L

Low-Flow Sampling Stabilization Summary

	Time	Elapsed	Temp C	pH	SpCond μ S/cm	Turb NTU	DTW ft	RDO mg/L	ORP mV
Stabilization			+/- 0	+/- 0.1	+/- 5%	+/- 5		+/- 10%	+/- 0
Last 5	15:26:56	300.03	19.65	5.54	51.17	0.20	17.62	3.55	73.67
Last 5	15:31:56	600.03	19.91	5.54	51.42	0.28	17.62	3.38	73.82
Last 5	15:36:56	900.02	19.89	5.54	51.15	0.24	17.62	3.25	73.71
Last 5	15:41:56	1200.02	19.94	5.55	51.08	0.28	17.62	3.28	73.59
Last 5	15:46:59	1503.71	19.81	5.54	51.03	0.22	17.62	3.25	76.37
Variance 0			-0.02	0.00	-0.27			-0.13	-0.11
Variance 1			0.05	0.01	-0.07			0.02	-0.13
Variance 2			-0.13	-0.02	-0.04			-0.02	2.79

Notes

Started surging SGWA-5 at 1521
Stopped purging SGWA-5 at 1546 and began sampling and sampled extra rad

Grab Samples

Product Name: Low-Flow System

Date: 2017-04-12 10:05:14

Project Information:

Operator Name D. Thomas
Company Name Golder Associates
Project Name 1662350
Site Name Plant Scherer
Latitude 0° 0' 0"
Longitude 0° 0' 0"
Sonde SN 456959
Turbidity Make/Model LaMotte

Pump Information:

Pump Model/Type QED
Tubing Type Polyethylene
Tubing Diameter 0.17 in
Tubing Length 19.21 ft

Pump placement from TOC 19.21 ft

Well Information:

Well ID SGWC-6
Well diameter 2 in
Well Total Depth 27.6 ft
Screen Length 10 ft
Depth to Water 14.9 ft

Pumping Information:

Final Pumping Rate 100 mL/min
Total System Volume 0.5831953 L
Calculated Sample Rate 300 sec
Stabilization Drawdown 23.4 in
Total Volume Pumped 3.4 L

Low-Flow Sampling Stabilization Summary

	Time	Elapsed	Temp C	pH	SpCond μ S/cm	Turb NTU	DTW ft	RDO mg/L	ORP mV
Stabilization			+/- 0	+/- 0.1	+/- 5%	+/- 5		+/- 10%	+/- 0
Last 5	09:41:33	600.03	17.42	6.20	94.25	0.38	16.82	2.21	71.97
Last 5	09:46:33	900.03	17.48	6.24	94.39	0.39	16.89	2.10	70.76
Last 5	09:51:33	1200.03	17.52	6.23	94.50	0.41	17.00	2.05	69.85
Last 5	09:56:33	1499.88	17.57	6.24	95.01	0.45	16.90	1.95	69.23
Last 5	10:01:33	1799.87	17.59	6.23	95.43	0.45	16.85	1.92	68.71
Variance 0			0.04	-0.00	0.11			-0.05	-0.92
Variance 1			0.05	0.00	0.50			-0.10	-0.62
Variance 2			0.02	-0.00	0.42			-0.03	-0.52

Notes

Started purging at 0931 at SGWC-6
Stopped purging SGWC-6 at 1001 and began sampling. Changed the purge rate from 120ml/min to 100ml/min after 0951

Grab Samples

Product Name: Low-Flow System

Date: 2017-04-12 12:13:21

Project Information:

Operator Name D. Thomas
Company Name Golder Associates
Project Name 1662350
Site Name Plant Scherer
Latitude 0° 0' 0"
Longitude 0° 0' 0"
Sonde SN 456959
Turbidity Make/Model LaMotte

Pump Information:

Pump Model/Type QED
Tubing Type Polyethylene
Tubing Diameter 0.17 in
Tubing Length 29.75 ft

Pump placement from TOC 29.75 ft

Well Information:

Well ID SGWC-7
Well diameter 2 in
Well Total Depth 37.7 ft
Screen Length 10 ft
Depth to Water 14.3 ft

Pumping Information:

Final Pumping Rate 120 mL/min
Total System Volume 0.6233661 L
Calculated Sample Rate 300 sec
Stabilization Drawdown 1.68 in
Total Volume Pumped 4.8 L

Low-Flow Sampling Stabilization Summary

	Time	Elapsed	Temp C	pH	SpCond μ S/cm	Turb NTU	DTW ft	RDO mg/L	ORP mV
Stabilization			+/- 0	+/- 0.1	+/- 5%	+/- 5		+/- 10%	+/- 0
Last 5	11:51:52	1200.02	19.40	6.44	359.66	0.63	14.44	0.63	11.65
Last 5	11:56:52	1500.03	19.50	6.44	358.33	0.49	14.44	0.60	14.02
Last 5	12:01:52	1800.02	19.74	6.43	357.28	0.48	14.44	0.58	15.06
Last 5	12:06:52	2100.02	19.88	6.43	354.23	0.49	14.44	0.55	16.03
Last 5	12:11:54	2401.88	19.90	6.43	352.22	0.54	14.44	0.58	17.01
Variance 0			0.23	-0.01	-1.05			-0.02	1.04
Variance 1			0.15	0.00	-3.05			-0.04	0.97
Variance 2			0.02	0.00	-2.01			0.04	0.98

Notes

Started purging SGWC-7 at 1131
Stopped purging SGWC-7 at 1211 and began sampling and sampled extra rad

Grab Samples

Product Name: Low-Flow System

Date: 2017-04-12 09:14:42

Project Information:

Operator Name B. Hodges
Company Name Golder Associates
Project Name 1662350
Site Name Plant Scherer
Latitude 0° 0' 0"
Longitude 0° 0' 0"
Sonde SN 365491
Turbidity Make/Model LaMotte

Pump Information:

Pump Model/Type QED
Tubing Type polyethylene
Tubing Diameter 0.17 in
Tubing Length 34.2 ft

Pump placement from TOC 34.2 ft

Well Information:

Well ID SGWC-8
Well diameter 2 in
Well Total Depth 42.6 ft
Screen Length 10 ft
Depth to Water 21.98 ft

Pumping Information:

Final Pumping Rate 150 mL/min
Total System Volume 0.6376491 L
Calculated Sample Rate 300 sec
Stabilization Drawdown 2.28 in
Total Volume Pumped 3 L

Low-Flow Sampling Stabilization Summary

	Time	Elapsed	Temp C	pH	SpCond μ S/cm	Turb NTU	DTW ft	RDO mg/L	ORP mV
Stabilization			+/- 0	+/- 0.1	+/- 5%	+/- 5		+/- 10%	+/- 0
Last 5	08:58:17	299.59	17.98	6.56	604.66	0.01	22.12	2.49	4.34
Last 5	09:03:17	599.53	17.99	6.41	603.81	0.02	22.15	2.07	-4.51
Last 5	09:08:17	899.53	18.01	6.37	603.27	0.01	22.17	2.05	-9.81
Last 5	09:13:17	1199.53	18.02	6.35	602.24	0.05	22.17	2.01	-13.66
Last 5									
Variance 0			0.01	-0.15	-0.85			-0.42	-8.86
Variance 1			0.01	-0.04	-0.53			-0.01	-5.30
Variance 2			0.01	-0.02	-1.03			-0.04	-3.85

Notes

Sampled at 0915/FB-1(AP)

Grab Samples

Product Name: Low-Flow System

Date: 2017-04-13 12:18:43

Project Information:

Operator Name B. Hodges
Company Name Golder Associates
Project Name 1662350
Site Name Plant Scherer
Latitude 0° 0' 0"
Longitude 0° 0' 0"
Sonde SN 365491
Turbidity Make/Model LaMotte

Pump Information:

Pump Model/Type QED
Tubing Type polyethylene
Tubing Diameter 0.17 in
Tubing Length 29.4 ft

Pump placement from TOC 29.4 ft

Well Information:

Well ID SGWC-9
Well diameter 2 in
Well Total Depth 37.8 ft
Screen Length 10 ft
Depth to Water 20.31 ft

Pumping Information:

Final Pumping Rate 150 mL/min
Total System Volume 0.6162246 L
Calculated Sample Rate 300 sec
Stabilization Drawdown 7.56 in
Total Volume Pumped 3 L

Low-Flow Sampling Stabilization Summary

	Time	Elapsed	Temp C	pH	SpCond μ S/cm	Turb NTU	DTW ft	RDO mg/L	ORP mV
Stabilization			+/- 0	+/- 0.1	+/- 5%	+/- 5		+/- 10%	+/- 0
Last 5	12:01:03	300.09	21.32	6.09	770.87	2.53	20.90	1.26	-49.18
Last 5	12:06:03	600.03	20.92	6.08	776.60	0.54	20.94	0.64	-30.43
Last 5	12:11:03	900.02	20.82	6.09	774.55	0.88	20.94	0.62	-31.27
Last 5	12:16:03	1200.02	20.75	6.09	769.00	0.45	20.94	0.59	-33.19
Last 5									
Variance 0			-0.40	-0.01	5.73			-0.63	18.76
Variance 1			-0.10	0.00	-2.05			-0.02	-0.85
Variance 2			-0.08	0.00	-5.55			-0.03	-1.92

Notes

Sampled at 1220

Grab Samples

Product Name: Low-Flow System

Date: 2017-04-12 11:11:35

Project Information:

Operator Name B. Hodges
Company Name Golder Associates
Project Name 1662350
Site Name Plant Scherer
Latitude 0° 0' 0"
Longitude 0° 0' 0"
Sonde SN 365491
Turbidity Make/Model LaMotte

Pump Information:

Pump Model/Type QED
Tubing Type polyethylene
Tubing Diameter 0.17 in
Tubing Length 24.2 ft

Pump placement from TOC 24.2 ft

Well Information:

Well ID SGWC-10
Well diameter 2 in
Well Total Depth 32.6 ft
Screen Length 10 ft
Depth to Water 16.51 ft

Pumping Information:

Final Pumping Rate 100 mL/min
Total System Volume 0.5930148 L
Calculated Sample Rate 300 sec
Stabilization Drawdown 13.08 in
Total Volume Pumped 7 L

Low-Flow Sampling Stabilization Summary

	Time	Elapsed	Temp C	pH	SpCond μ S/cm	Turb NTU	DTW ft	RDO mg/L	ORP mV
Stabilization			+/- 0	+/- 0.1	+/- 5%	+/- 5		+/- 10%	+/- 0
Last 5	10:50:14	2999.88	18.17	5.36	70.61	0.05	17.60	1.47	-7.12
Last 5	10:55:14	3299.89	18.25	5.37	71.54	0.15	17.60	1.29	-10.38
Last 5	11:00:14	3599.89	18.33	5.37	72.86	0.06	17.60	1.14	-13.05
Last 5	11:05:14	3899.89	18.34	5.38	74.94	0.06	17.60	1.04	-15.00
Last 5	11:10:14	4199.89	18.42	5.39	78.09	0.09	17.60	0.94	-16.73
Variance 0			0.08	-0.00	1.33			-0.15	-2.67
Variance 1			0.01	0.01	2.08			-0.10	-1.95
Variance 2			0.08	0.00	3.15			-0.10	-1.74

Notes

Sampled at 1110/FB-2(AP)

Grab Samples

Product Name: Low-Flow System

Date: 2017-04-12 10:05:03

Project Information:

Operator Name D. Herrera
Company Name Golder Associates
Project Name 1662350
Site Name Plant Scherer
Latitude 0° 0' 0"
Longitude 0° 0' 0"
Sonde SN 364456
Turbidity Make/Model LaMotte

Pump Information:

Pump Model/Type QED
Tubing Type polyethylene
Tubing Diameter 0.17 in
Tubing Length 34.3 ft

Pump placement from TOC 34.3 ft

Well Information:

Well ID SGWC-11
Well diameter 2 in
Well Total Depth 42.7 ft
Screen Length 10 ft
Depth to Water 17.95 ft

Pumping Information:

Final Pumping Rate 200 mL/min
Total System Volume 0.685854 L
Calculated Sample Rate 300 sec
Stabilization Drawdown 40.2 in
Total Volume Pumped 9 L

Low-Flow Sampling Stabilization Summary

	Time	Elapsed	Temp C	pH	SpCond μ S/cm	Turb NTU	DTW ft	RDO mg/L	ORP mV
Stabilization			+/- 0	+/- 0.1	+/- 5%	+/- 5		+/- 10%	+/- 0
Last 5	09:39:24	1500.56	18.52	5.51	100.16	0.42	21.15	0.98	183.40
Last 5	09:44:24	1800.56	18.54	5.50	98.83	0.38	21.25	0.82	185.37
Last 5	09:49:24	2100.57	18.53	5.48	97.64	0.27	21.25	0.73	188.25
Last 5	09:54:24	2400.56	18.52	5.48	96.61	0.20	21.30	0.60	189.10
Last 5	09:59:26	2702.57	18.52	5.47	95.54	0.26	21.30	0.53	191.12
Variance 0			-0.01	-0.02	-1.20			-0.09	2.88
Variance 1			-0.01	0.00	-1.03			-0.12	0.85
Variance 2			0.00	-0.01	-1.07			-0.08	2.02

Notes

Sampled SGWC-11 and FD-2(AP) on 4/12/2017 at 10:05

Grab Samples

Product Name: Low-Flow System

Date: 2017-04-12 11:30:53

Project Information:

Operator Name D. Herrera
Company Name Golder Associates
Project Name 1662350
Site Name Plant Scherer
Latitude 0° 0' 0"
Longitude 0° 0' 0"
Sonde SN 364456
Turbidity Make/Model LaMotte

Pump Information:

Pump Model/Type QED
Tubing Type polyethylene
Tubing Diameter 0.17 in
Tubing Length 41.87 ft

Pump placement from TOC 41.87 ft

Well Information:

Well ID SGWC-12
Well diameter 2 in
Well Total Depth 50.2 ft
Screen Length 10 ft
Depth to Water 14.50 ft

Pumping Information:

Final Pumping Rate 200 mL/min
Total System Volume 0.717098 L
Calculated Sample Rate 300 sec
Stabilization Drawdown 46.2 in
Total Volume Pumped 7 L

Low-Flow Sampling Stabilization Summary

	Time	Elapsed	Temp C	pH	SpCond μ S/cm	Turb NTU	DTW ft	RDO mg/L	ORP mV
Stabilization			+/- 0	+/- 0.1	+/- 5%	+/- 5		+/- 10%	+/- 0
Last 5	11:07:19	900.02	19.42	6.16	348.72	2.20	17.50	0.76	134.40
Last 5	11:12:19	1200.02	19.45	6.15	349.34	1.58	17.95	0.63	131.55
Last 5	11:17:20	1500.37	19.57	6.15	348.45	1.66	18.15	0.55	129.78
Last 5	11:22:20	1800.37	19.67	6.15	348.11	1.15	18.20	0.51	129.04
Last 5	11:27:20	2100.37	19.76	6.15	347.30	0.83	18.35	0.45	138.38
Variance 0			0.12	-0.01	-0.89			-0.09	-1.78
Variance 1			0.10	0.00	-0.34			-0.04	-0.74
Variance 2			0.09	0.00	-0.81			-0.06	9.34

Notes

Sampled SGWC-12 on 4/12/2017 at 11:30

Grab Samples

Product Name: Low-Flow System

Date: 2017-04-12 13:56:36

Project Information:

Operator Name D. Herrera
Company Name Golder Associates
Project Name 1662350
Site Name Plant Scherer
Latitude 0° 0' 0"
Longitude 0° 0' 0"
Sonde SN 364456
Turbidity Make/Model LaMotte

Pump Information:

Pump Model/Type QED
Tubing Type polyethylene
Tubing Diameter 0.17 in
Tubing Length 29 ft

Pump placement from TOC 29 ft

Well Information:

Well ID SGWC-13
Well diameter 2 in
Well Total Depth 37.5 ft
Screen Length 10 ft
Depth to Water 4.4 ft

Pumping Information:

Final Pumping Rate 200 mL/min
Total System Volume 0.6412198 L
Calculated Sample Rate 300 sec
Stabilization Drawdown 12.6 in
Total Volume Pumped 5 L

Low-Flow Sampling Stabilization Summary

	Time	Elapsed	Temp C	pH	SpCond μ S/cm	Turb NTU	DTW ft	RDO mg/L	ORP mV
Stabilization			+/- 0	+/- 0.1	+/- 5%	+/- 5		+/- 10%	+/- 0
Last 5	13:34:48	300.03	19.72	6.04	288.99	2.88	5.45	0.44	681.99
Last 5	13:39:48	600.02	19.49	6.03	288.39	1.41	5.45	0.20	688.35
Last 5	13:44:48	900.02	19.67	6.02	290.00	1.68	5.45	0.14	698.43
Last 5	13:49:48	1200.02	19.69	6.01	292.69	1.71	5.45	0.13	710.63
Last 5	13:54:48	1500.02	19.93	6.01	295.73	0.47	5.45	0.12	730.57
Variance 0			0.18	-0.02	1.61			-0.06	10.08
Variance 1			0.02	-0.01	2.69			-0.02	12.20
Variance 2			0.24	0.00	3.04			-0.01	19.95

Notes

Sampled SGWC-13 on 4/12/17 at 14:00

Grab Samples

Product Name: Low-Flow System

Date: 2017-04-12 14:18:16

Project Information:

Operator Name B. Hodges
Company Name Golder Associates
Project Name 1662350
Site Name Plant Scherer
Latitude 0° 0' 0"
Longitude 0° 0' 0"
Sonde SN 365491
Turbidity Make/Model LaMotte

Pump Information:

Pump Model/Type QED
Tubing Type polyethylene
Tubing Diameter 0.17 in
Tubing Length 30.24 ft

Pump placement from TOC 30.24 ft

Well Information:

Well ID SGWC-14
Well diameter 2 in
Well Total Depth 38.5 ft
Screen Length 10 ft
Depth to Water 10.60 ft

Pumping Information:

Final Pumping Rate 250 mL/min
Total System Volume 0.6199739 L
Calculated Sample Rate 300 sec
Stabilization Drawdown 1.56 in
Total Volume Pumped 18.75 L

Low-Flow Sampling Stabilization Summary

	Time	Elapsed	Temp C	pH	SpCond μ S/cm	Turb NTU	DTW ft	RDO mg/L	ORP mV
Stabilization			+/- 0	+/- 0.1	+/- 5%	+/- 5		+/- 10%	+/- 0
Last 5	14:06:17	300.07	18.32	5.85	479.71	4.47	10.73	0.13	-48.58
Last 5	14:11:17	600.03	18.34	5.85	480.22	4.19	10.73	0.13	-47.53
Last 5	14:16:16	899.91	18.47	5.85	479.36	4.17	10.73	0.13	-47.48
Last 5									
Variance 0			nan	nan	nan			nan	nan
Variance 1			0.02	0.00	0.51			0.00	1.05
Variance 2			0.14	0.00	-0.86			-0.00	0.05

Notes

Sampled at 1415/IPad overheated after one hour of purging

Grab Samples

Product Name: Low-Flow System

Date: 2017-04-12 15:13:06

Project Information:

Operator Name D. Thomas
Company Name Golder Associates
Project Name 1662350
Site Name Plant Scherer
Latitude 0° 0' 0"
Longitude 0° 0' 0"
Sonde SN 456959
Turbidity Make/Model LaMotte

Pump Information:

Pump Model/Type QED
Tubing Type Polyethylene
Tubing Diameter 0.17 in
Tubing Length 39.65 ft

Pump placement from TOC 39.65 ft

Well Information:

Well ID SGWC-15
Well diameter 2 in
Well Total Depth 48.2 ft
Screen Length 10 ft
Depth to Water 27.72 ft

Pumping Information:

Final Pumping Rate 200 mL/min
Total System Volume 0.6680003 L
Calculated Sample Rate 300 sec
Stabilization Drawdown 0.96 in
Total Volume Pumped 12 L

Low-Flow Sampling Stabilization Summary

	Time	Elapsed	Temp C	pH	SpCond μ S/cm	Turb NTU	DTW ft	RDO mg/L	ORP mV
Stabilization			+/- 0	+/- 0.1	+/- 5%	+/- 5		+/- 10%	+/- 0
Last 5	14:51:53	2400.02	20.63	4.67	475.43	7.26	27.80	1.25	239.95
Last 5	14:56:53	2699.83	20.75	4.67	474.63	5.74	27.80	1.24	249.46
Last 5	15:01:53	2999.83	20.60	4.67	475.90	4.99	27.80	1.23	255.96
Last 5	15:06:53	3299.83	20.82	4.67	472.66	4.66	27.80	1.22	261.82
Last 5	15:11:53	3599.83	20.75	4.67	472.04	4.22	27.80	1.21	271.08
Variance 0			-0.15	0.00	1.28			-0.01	6.49
Variance 1			0.22	-0.00	-3.24			-0.01	5.87
Variance 2			-0.07	0.00	-0.62			-0.00	9.25

Notes

Started purging SGWC-15 at 1411
Stopped purging SGWC-15 at 1511 and began sampling.

Grab Samples

Product Name: Low-Flow System

Date: 2017-04-13 09:40:31

Project Information:

Operator Name D. Herrera
Company Name Golder Associates
Project Name 1662350
Site Name Plant Scherer
Latitude 0° 0' 0"
Longitude 0° 0' 0"
Sonde SN 364456
Turbidity Make/Model LaMotte

Pump Information:

Pump Model/Type QED
Tubing Type polyethylene
Tubing Diameter 0.17 in
Tubing Length 34.62 ft

Pump placement from TOC 34.62 ft

Well Information:

Well ID SGWC-16
Well diameter 2 in
Well Total Depth 43.3 ft
Screen Length 10 ft
Depth to Water 23.74 ft

Pumping Information:

Final Pumping Rate 200 mL/min
Total System Volume 0.6769272 L
Calculated Sample Rate 300 sec
Stabilization Drawdown 1.32 in
Total Volume Pumped 6 L

Low-Flow Sampling Stabilization Summary

	Time	Elapsed	Temp C	pH	SpCond μ S/cm	Turb NTU	DTW ft	RDO mg/L	ORP mV
Stabilization			+/- 0	+/- 0.1	+/- 5%	+/- 5		+/- 10%	+/- 0
Last 5	09:17:55	600.04	17.91	5.31	91.16	24.00	23.85	3.40	317.28
Last 5	09:22:55	900.02	17.89	5.31	92.02	9.89	23.85	3.37	340.94
Last 5	09:27:55	1200.02	17.96	5.31	92.69	6.90	23.85	3.34	366.39
Last 5	09:32:55	1500.02	18.04	5.27	92.90	5.35	23.85	3.31	394.31
Last 5	09:37:55	1800.02	18.04	5.28	93.37	4.28	23.85	3.30	408.90
Variance 0			0.07	-0.00	0.67			-0.02	25.45
Variance 1			0.08	-0.04	0.21			-0.03	27.92
Variance 2			-0.00	0.01	0.48			-0.01	14.58

Notes

Sampled SGWC-16 and FD-3(AP) on 4/13/2017 at 9:40

Grab Samples

Product Name: Low-Flow System

Date: 2017-04-13 11:28:30

Project Information:

Operator Name D. Herrera
Company Name Golder Associates
Project Name 1662350
Site Name Plant Scherer
Latitude 0° 0' 0"
Longitude 0° 0' 0"
Sonde SN 364456
Turbidity Make/Model LaMotte

Pump Information:

Pump Model/Type QED
Tubing Type polyethylene
Tubing Diameter 0.17 in
Tubing Length 19.24 ft

Pump placement from TOC 19.24 ft

Well Information:

Well ID SGWC-17
Well diameter 2 in
Well Total Depth 27.6 ft
Screen Length 10 ft
Depth to Water 0.3 ft

Pumping Information:

Final Pumping Rate 200 mL/min
Total System Volume 0.6144392 L
Calculated Sample Rate 300 sec
Stabilization Drawdown 7.32 in
Total Volume Pumped 5 L

Low-Flow Sampling Stabilization Summary

	Time	Elapsed	Temp C	pH	SpCond μ S/cm	Turb NTU	DTW ft	RDO mg/L	ORP mV
Stabilization			+/- 0	+/- 0.1	+/- 5%	+/- 5		+/- 10%	+/- 0
Last 5	11:05:29	300.10	20.41	6.21	481.24	1.98	0.90	0.94	450.22
Last 5	11:10:29	600.55	19.54	6.20	488.23	2.11	0.91	0.84	613.08
Last 5	11:15:29	900.55	19.58	6.21	485.73	3.74	0.91	0.58	614.71
Last 5	11:20:29	1200.55	19.54	6.20	488.90	3.37	0.91	0.38	596.65
Last 5	11:25:29	1500.55	19.49	6.21	491.52	3.32	0.91	0.28	584.06
Variance 0			0.04	0.00	-2.49			-0.26	1.63
Variance 1			-0.04	-0.00	3.17			-0.21	-18.05
Variance 2			-0.05	0.01	2.61			-0.09	-12.59

Notes

Sampled SGWC-17 on 4/13/2017 at 11:30. Pump next to SGWC-17 was shut off for maintenance.

Grab Samples

Product Name: Low-Flow System

Date: 2017-04-13 13:28:23

Project Information:

Operator Name D. Herrera
Company Name Golder Associates
Project Name 1662350
Site Name Plant Scherer
Latitude 0° 0' 0"
Longitude 0° 0' 0"
Sonde SN 364456
Turbidity Make/Model LaMotte

Pump Information:

Pump Model/Type QED
Tubing Type polyethylene
Tubing Diameter 0.17 in
Tubing Length 39.20 ft

Pump placement from TOC 39.20 ft

Well Information:

Well ID SGWC-18
Well diameter 2 in
Well Total Depth 47.60 ft
Screen Length 10 ft
Depth to Water 35.63 ft

Pumping Information:

Final Pumping Rate 200 mL/min
Total System Volume 0.6992443 L
Calculated Sample Rate 300 sec
Stabilization Drawdown 3.84 in
Total Volume Pumped 4 L

Low-Flow Sampling Stabilization Summary

	Time	Elapsed	Temp C	pH	SpCond μ S/cm	Turb NTU	DTW ft	RDO mg/L	ORP mV
Stabilization			+/- 0	+/- 0.1	+/- 5%	+/- 5		+/- 10%	+/- 0
Last 5	13:09:11	650.99	22.78	4.80	920.73	0.37	35.90	2.60	772.88
Last 5	13:14:11	950.98	23.02	4.79	917.89	0.13	35.95	2.41	746.01
Last 5	13:19:11	1250.98	22.75	4.79	915.04	0.12	35.95	2.36	746.87
Last 5	13:24:11	1550.98	22.27	4.79	916.37	0.09	35.95	2.34	746.39
Last 5									
Variance 0			0.24	-0.00	-2.84			-0.18	-26.88
Variance 1			-0.27	0.00	-2.84			-0.06	0.86
Variance 2			-0.48	-0.00	1.33			-0.01	-0.48

Notes

SGWC-18 sampled on 4/13/2017 at 13:30

Grab Samples

Product Name: Low-Flow System

Date: 2017-04-13 13:42:00

Project Information:

Operator Name D. Thomas
Company Name Golder Associates
Project Name 1662350
Site Name Plant Scherer
Latitude 0° 0' 0"
Longitude 0° 0' 0"
Sonde SN 456959
Turbidity Make/Model LaMotte

Pump Information:

Pump Model/Type QED
Tubing Type Polyethylene
Tubing Diameter 0.17 in
Tubing Length 29 ft

Pump placement from TOC 29.0 ft

Well Information:

Well ID SGWC-19
Well diameter 2 in
Well Total Depth 37.4 ft
Screen Length 10 ft
Depth to Water 15.8 ft

Pumping Information:

Final Pumping Rate 200 mL/min
Total System Volume 0.632293 L
Calculated Sample Rate 300 sec
Stabilization Drawdown 9.48 in
Total Volume Pumped 6 L

Low-Flow Sampling Stabilization Summary

	Time	Elapsed	Temp C	pH	SpCond μ S/cm	Turb NTU	DTW ft	RDO mg/L	ORP mV
Stabilization			+/- 0	+/- 0.1	+/- 5%	+/- 5		+/- 10%	+/- 0
Last 5	13:20:01	600.02	20.93	5.54	500.53	0.55	16.60	2.45	121.11
Last 5	13:25:00	899.88	20.70	5.52	501.92	0.44	16.67	2.27	115.57
Last 5	13:30:00	1199.88	20.68	5.49	504.26	0.51	16.67	2.24	111.63
Last 5	13:35:00	1499.88	20.83	5.48	503.40	0.47	16.67	2.24	109.01
Last 5	13:40:00	1799.88	20.88	5.47	503.05	0.42	16.67	2.22	106.64
Variance 0			-0.02	-0.02	2.34			-0.03	-3.95
Variance 1			0.15	-0.01	-0.87			-0.00	-2.62
Variance 2			0.05	-0.01	-0.35			-0.02	-2.37

Notes

Started purging SGWC-19 at 1310
Stopped purging SGWC-19 at 1340 and began sampling

Grab Samples

Product Name: Low-Flow System

Date: 2017-04-13 11:40:40

Project Information:

Operator Name D. Thomas
Company Name Golder Associates
Project Name 1662350
Site Name Plant Scherer
Latitude 0° 0' 0"
Longitude 0° 0' 0"
Sonde SN 456959
Turbidity Make/Model LaMotte

Pump Information:

Pump Model/Type QED
Tubing Type Polyethylene
Tubing Diameter 0.17 in
Tubing Length 19.5 ft

Pump placement from TOC 19.5 ft

Well Information:

Well ID SGWC-20
Well diameter 2 in
Well Total Depth 27.9 ft
Screen Length 10 ft
Depth to Water 13.57 ft

Pumping Information:

Final Pumping Rate 180 mL/min
Total System Volume 0.5876587 L
Calculated Sample Rate 300 sec
Stabilization Drawdown 6.6 in
Total Volume Pumped 6.3 L

Low-Flow Sampling Stabilization Summary

	Time	Elapsed	Temp C	pH	SpCond μ S/cm	Turb NTU	DTW ft	RDO mg/L	ORP mV
Stabilization			+/- 0	+/- 0.1	+/- 5%	+/- 5		+/- 10%	+/- 0
Last 5	11:15:04	900.02	21.06	4.21	555.39	0.25	14.18	0.75	179.42
Last 5	11:20:04	1200.02	21.06	4.22	560.77	0.26	14.12	0.66	182.86
Last 5	11:25:04	1500.03	21.11	4.22	565.51	0.22	14.12	0.63	185.55
Last 5	11:30:04	1799.93	21.10	4.23	568.06	0.17	14.12	0.58	190.69
Last 5	11:35:04	2099.93	21.02	4.24	572.33	0.17	14.12	0.53	195.15
Variance 0			0.06	0.00	4.75			-0.03	2.69
Variance 1			-0.01	0.01	2.54			-0.05	5.15
Variance 2			-0.08	0.01	4.27			-0.05	4.45

Notes

Started purging SGWC-20 at 1100
Stopped purging at SGWC-20 at 1135 and began sampling and extra rad sampled

Grab Samples

Product Name: Low-Flow System

Date: 2017-04-13 10:00:25

Project Information:

Operator Name D. Thomas
Company Name Golder Associates
Project Name 16623050
Site Name Plant Scherer
Latitude 0° 0' 0"
Longitude 0° 0' 0"
Sonde SN 456959
Turbidity Make/Model LaMotte

Pump Information:

Pump Model/Type Dedicated
Tubing Type Polyethylene
Tubing Diameter 0.17 in
Tubing Length 19.39 ft

Pump placement from TOC 19.39 ft

Well Information:

Well ID SGWC-21
Well diameter 2 in
Well Total Depth 27.79 ft
Screen Length 10 ft
Depth to Water 1.00 ft

Pumping Information:

Final Pumping Rate 200 mL/min
Total System Volume 0.5831953 L
Calculated Sample Rate 300 sec
Stabilization Drawdown 2.28 in
Total Volume Pumped 13 L

Low-Flow Sampling Stabilization Summary

	Time	Elapsed	Temp C	pH	SpCond μ S/cm	Turb NTU	DTW ft	RDO mg/L	ORP mV
Stabilization			+/- 0	+/- 0.1	+/- 5%	+/- 5		+/- 10%	+/- 0
Last 5	09:38:59	2700.03	18.79	5.93	424.97	5.86	1.19	0.15	209.43
Last 5	09:43:59	3000.02	18.80	5.93	425.17	5.14	1.19	0.16	209.98
Last 5	09:48:59	3300.02	18.87	5.93	425.33	3.76	1.19	0.16	210.93
Last 5	09:53:59	3599.99	18.90	5.94	424.73	3.59	1.19	0.15	216.11
Last 5	09:58:59	3899.99	18.94	5.93	424.46	3.45	1.19	0.15	223.17
Variance 0			0.06	0.00	0.17			-0.00	0.95
Variance 1			0.04	0.00	-0.60			-0.00	5.18
Variance 2			0.04	-0.00	-0.26			0.00	7.06

Notes

Started purging SGWC-21 at 0853
Stopped surging SGWC-21 at 0958 and began sampling and sampled extra rad

Grab Samples

Product Name: Low-Flow System

Date: 2017-04-13 10:23:59

Project Information:

Operator Name B. Hodges
Company Name Golder Associates
Project Name 1662350
Site Name Plant Scherer
Latitude 0° 0' 0"
Longitude 0° 0' 0"
Sonde SN 365491
Turbidity Make/Model LaMotte

Pump Information:

Pump Model/Type QED
Tubing Type polyethylene
Tubing Diameter 0.17 in
Tubing Length 44.20 ft

Pump placement from TOC 44.20 ft

Well Information:

Well ID SGWC-22
Well diameter 2 in
Well Total Depth 52.6 ft
Screen Length 10 ft
Depth to Water 25.72 ft

Pumping Information:

Final Pumping Rate 100 mL/min
Total System Volume 0.6822833 L
Calculated Sample Rate 300 sec
Stabilization Drawdown 8.28 in
Total Volume Pumped 3 L

Low-Flow Sampling Stabilization Summary

	Time	Elapsed	Temp C	pH	SpCond μ S/cm	Turb NTU	DTW ft	RDO mg/L	ORP mV
Stabilization			+/- 0	+/- 0.1	+/- 5%	+/- 5		+/- 10%	+/- 0
Last 5	10:02:29	600.06	20.74	5.67	323.85	1.08	26.41	0.60	-13.41
Last 5	10:07:29	900.03	20.84	5.65	324.40	0.76	26.41	0.38	1.33
Last 5	10:12:29	1200.03	20.83	5.67	322.03	0.57	26.41	0.40	8.39
Last 5	10:17:29	1500.03	20.97	5.69	320.69	0.49	26.41	0.35	13.87
Last 5	10:22:29	1800.02	21.03	5.70	319.66	0.48	26.41	0.31	19.51
Variance 0			-0.00	0.02	-2.37			0.02	7.05
Variance 1			0.13	0.01	-1.34			-0.05	5.48
Variance 2			0.07	0.01	-1.03			-0.04	5.64

Notes

Sampled at 1025

Grab Samples

Product Name: Low-Flow System

Date: 2017-04-13 09:11:42

Project Information:

Operator Name B. Hodges
Company Name Golder Associates
Project Name 1662350
Site Name Plant Scherer
Latitude 0° 0' 0"
Longitude 0° 0' 0"
Sonde SN 365491
Turbidity Make/Model LaMotte

Pump Information:

Pump Model/Type QED
Tubing Type polyethylene
Tubing Diameter 0.17 in
Tubing Length 44.25 ft

Pump placement from TOC 44.25 ft

Well Information:

Well ID SGWC-23
Well diameter 2 in
Well Total Depth 52.6 ft
Screen Length 10 ft
Depth to Water 31.21 ft

Pumping Information:

Final Pumping Rate 150 mL/min
Total System Volume 0.6825064 L
Calculated Sample Rate 300 sec
Stabilization Drawdown 1.32 in
Total Volume Pumped 3 L

Low-Flow Sampling Stabilization Summary

	Time	Elapsed	Temp C	pH	SpCond μ S/cm	Turb NTU	DTW ft	RDO mg/L	ORP mV
Stabilization			+/- 0	+/- 0.1	+/- 5%	+/- 5		+/- 10%	+/- 0
Last 5	08:54:27	298.41	18.96	6.01	356.97	1.37	31.32	1.46	-9.34
Last 5	08:59:26	598.27	19.07	5.90	348.98	0.28	31.32	1.29	-11.22
Last 5	09:04:26	898.27	19.19	5.86	345.95	0.09	31.32	1.26	-12.43
Last 5	09:09:26	1198.27	19.32	5.85	353.03	0.04	31.32	1.30	-12.22
Last 5									
Variance 0			0.11	-0.11	-7.98			-0.17	-1.88
Variance 1			0.12	-0.04	-3.04			-0.02	-1.21
Variance 2			0.13	-0.02	7.08			0.04	0.21

Notes

Sampled at 0910/FB-3(AP)

Grab Samples

Product Name: Low-Flow System

Date: 2017-04-10 16:25:25

Project Information:

Operator Name D. Herrera
Company Name Golder Associates
Project Name 1662350
Site Name Plant Scherer
Latitude 0° 0' 0"
Longitude 0° 0' 0"
Sonde SN 364456
Turbidity Make/Model LaMotte

Pump Information:

Pump Model/Type QED
Tubing Type polyethylene
Tubing Diameter 0.17 in
Tubing Length 34.80 ft

Pump placement from TOC 34.80 ft

Well Information:

Well ID SGWA-24
Well diameter 2 in
Well Total Depth 42.90 ft
Screen Length 10 ft
Depth to Water 14.52 ft

Pumping Information:

Final Pumping Rate 200 mL/min
Total System Volume 0.685854 L
Calculated Sample Rate 300 sec
Stabilization Drawdown 8.16 in
Total Volume Pumped 21 L

Low-Flow Sampling Stabilization Summary

	Time	Elapsed	Temp C	pH	SpCond μ S/cm	Turb NTU	DTW ft	RDO mg/L	ORP mV
Stabilization			+/- 0	+/- 0.1	+/- 5%	+/- 5		+/- 10%	+/- 0
Last 5	16:02:27	5100.69	19.18	6.31	132.37	6.73	15.20	1.48	105.96
Last 5	16:07:29	5402.69	19.08	6.31	132.41	6.96	15.20	1.47	109.07
Last 5	16:12:29	5702.69	19.16	6.31	132.59	6.00	15.20	1.46	108.49
Last 5	16:17:29	6002.69	19.32	6.31	131.63	5.71	15.20	1.43	107.72
Last 5	16:22:29	6302.69	19.18	6.31	131.96	4.82	15.20	1.42	107.85
Variance 0			0.09	-0.00	0.18			-0.01	-0.59
Variance 1			0.15	0.00	-0.97			-0.03	-0.77
Variance 2			-0.13	-0.00	0.33			-0.01	0.13

Notes

Sampled SGWA-24 on 4/10/2017 at 16:25

Grab Samples

Product Name: Low-Flow System

Date: 2017-04-11 16:56:30

Project Information:

Operator Name D. Herrera
Company Name Golder Associates
Project Name 1662350
Site Name Plant Scherer
Latitude 0° 0' 0"
Longitude 0° 0' 0"
Sonde SN 364456
Turbidity Make/Model LaMotte

Pump Information:

Pump Model/Type QED
Tubing Type polyethylene
Tubing Diameter 0.17 in
Tubing Length 39.75 ft

Pump placement from TOC 39.75 ft

Well Information:

Well ID SGWA-25
Well diameter 2 in
Well Total Depth 48 ft
Screen Length 10 ft
Depth to Water 28.25 ft

Pumping Information:

Final Pumping Rate 200 mL/min
Total System Volume 0.7126346 L
Calculated Sample Rate 300 sec
Stabilization Drawdown 3.6 in
Total Volume Pumped 9 L

Low-Flow Sampling Stabilization Summary

	Time	Elapsed	Temp C	pH	SpCond μ S/cm	Turb NTU	DTW ft	RDO mg/L	ORP mV
Stabilization			+/- 0	+/- 0.1	+/- 5%	+/- 5		+/- 10%	+/- 0
Last 5	16:34:46	1500.02	20.07	6.15	133.70	9.30	28.55	0.19	87.84
Last 5	16:39:46	1800.02	20.05	6.12	133.61	8.53	28.55	0.18	90.91
Last 5	16:44:46	2100.02	20.06	6.15	133.29	6.06	28.55	0.17	91.08
Last 5	16:49:46	2400.02	19.90	6.13	133.18	5.63	28.55	0.16	113.41
Last 5	16:54:46	2700.02	20.02	6.16	132.44	4.72	28.55	0.15	173.96
Variance 0			0.01	0.03	-0.32			-0.02	0.16
Variance 1			-0.17	-0.01	-0.11			-0.01	22.33
Variance 2			0.13	0.02	-0.74			-0.01	60.55

Notes

Sampled SGWA-25 on 4/11/2017 at 16:55

Grab Samples



APPENDIX A

ANALYTICAL RESULTS & FIELD DATA FORMS
(JUNE 2017)

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

TestAmerica Laboratories, Inc.

TestAmerica Pensacola

3355 McLemore Drive

Pensacola, FL 32514

Tel: (850)474-1001

TestAmerica Job ID: 400-139893-1

TestAmerica Sample Delivery Group: Ash Pond

Client Project/Site: CCR - Plant Scherer

For:

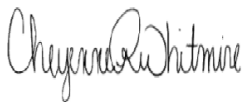
Southern Company

241 Ralph McGill Blvd SE

B10185

Atlanta, Georgia 30308

Attn: Joju Abraham



Authorized for release by:

7/21/2017 4:35:11 PM

Cheyenne Whitmire, Project Manager II

(850)471-6222

cheyenne.whitmire@testamericainc.com

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www.testamericainc.com

The test results in this report meet all 2003 NELAC and 2009 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.

1

2

3

4

5

6

7

8

9

10

11

12

13

14



Table of Contents

Cover Page	1
Table of Contents	2
Case Narrative	3
Detection Summary	4
Method Summary	14
Sample Summary	15
Client Sample Results	16
Definitions	50
Chronicle	51
QC Association	61
QC Sample Results	68
Chain of Custody	77
Receipt Checklists	81
Certification Summary	82

Case Narrative

Client: Southern Company
Project/Site: CCR - Plant Scherer

TestAmerica Job ID: 400-139893-1
SDG: Ash Pond

Job ID: 400-139893-1

Laboratory: TestAmerica Pensacola

Narrative

Job Narrative 400-139893-1

HPLC/IC

Method(s) 300.0: The continuing calibration verification (CCV) associated with batch 359035 recovered above the upper control limit for Fluoride and Sulfate. The samples associated with this CCV were non-detects for the affected analytes; therefore, the data have been reported. The following sample is impacted: (CCV 400-359035/26).

Method(s) 300.0: The following samples were diluted to bring the concentration of target analytes within the calibration range: SGWC-22 (400-139893-10), SGWC-19 (400-139893-11), SGWC-21 (400-139893-12), SGWC-23 (400-139893-13), SGWC-18 (400-139893-14), SGWC-20 (400-139893-15), FD-3(AP) (400-139893-16), SGWC-17 (400-139893-22), SGWC-8 (400-139893-24), SGWC-9 (400-139893-26), SGWC-13 (400-139893-27), SGWC-14 (400-139893-32) and SGWC-15 (400-139893-33). Elevated reporting limits (RLs) are provided.

Method(s) 300.0: The continuing calibration verification (CCV) associated with batch 359417 recovered above the upper control limit for Fluoride. The samples associated with this CCV were non-detects for the affected analytes; therefore, the data have been reported. The following sample is impacted: (CCV 400-359417/26).

Metals

Method(s) 6020: The following samples were diluted to bring the concentration of target analytes within the calibration range: SGWC-19 (400-139893-11), SGWC-18 (400-139893-14) and SGWC-20 (400-139893-15). Elevated reporting limits (RLs) are provided.

Detection Summary

Client: Southern Company
Project/Site: CCR - Plant Scherer

TestAmerica Job ID: 400-139893-1
SDG: Ash Pond

Client Sample ID: SGWA-4

Lab Sample ID: 400-139893-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chloride	1.2		1.0	0.89	mg/L	1		300.0	Total/NA
Sulfate	0.99	J	1.0	0.70	mg/L	1		300.0	Total/NA
Arsenic	0.00055	J	0.0013	0.00046	mg/L	5		6020	Total Recoverable
Barium	0.058		0.0025	0.00049	mg/L	5		6020	Total Recoverable
Calcium	18		0.25	0.13	mg/L	5		6020	Total Recoverable
Chromium	0.0061		0.0025	0.0011	mg/L	5		6020	Total Recoverable
Molybdenum	0.0016	J	0.015	0.00085	mg/L	5		6020	Total Recoverable
Selenium	0.00041	J	0.0013	0.00024	mg/L	5		6020	Total Recoverable
Total Dissolved Solids	110		5.0	3.4	mg/L	1		SM 2540C	Total/NA

Client Sample ID: EB-1(AP)

Lab Sample ID: 400-139893-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Arsenic	0.00056	J	0.0013	0.00046	mg/L	5		6020	Total Recoverable
Selenium	0.00028	J	0.0013	0.00024	mg/L	5		6020	Total Recoverable

Client Sample ID: SGWA-3

Lab Sample ID: 400-139893-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chloride	2.6		1.0	0.89	mg/L	1		300.0	Total/NA
Sulfate	1.5		1.0	0.70	mg/L	1		300.0	Total/NA
Arsenic	0.00063	J	0.0013	0.00046	mg/L	5		6020	Total Recoverable
Barium	0.036		0.0025	0.00049	mg/L	5		6020	Total Recoverable
Calcium	4.9		0.25	0.13	mg/L	5		6020	Total Recoverable
Chromium	0.012		0.0025	0.0011	mg/L	5		6020	Total Recoverable
Selenium	0.00029	J	0.0013	0.00024	mg/L	5		6020	Total Recoverable
Total Dissolved Solids	64		5.0	3.4	mg/L	1		SM 2540C	Total/NA

Client Sample ID: SGWA-5

Lab Sample ID: 400-139893-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chloride	1.7		1.0	0.89	mg/L	1		300.0	Total/NA
Arsenic	0.00079	J	0.0013	0.00046	mg/L	5		6020	Total Recoverable
Barium	0.011		0.0025	0.00049	mg/L	5		6020	Total Recoverable
Calcium	1.5		0.25	0.13	mg/L	5		6020	Total Recoverable
Chromium	0.0021	J	0.0025	0.0011	mg/L	5		6020	Total Recoverable
Total Dissolved Solids	80		5.0	3.4	mg/L	1		SM 2540C	Total/NA

This Detection Summary does not include radiochemical test results.

TestAmerica Pensacola

Detection Summary

Client: Southern Company
Project/Site: CCR - Plant Scherer

TestAmerica Job ID: 400-139893-1
SDG: Ash Pond

Client Sample ID: FB-1(AP)

Lab Sample ID: 400-139893-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Arsenic	0.00061	J	0.0013	0.00046	mg/L	5		6020	Total Recoverable

Client Sample ID: SGWA-1

Lab Sample ID: 400-139893-6

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chloride	1.9		1.0	0.89	mg/L	1		300.0	Total/NA
Sulfate	0.74	J	1.0	0.70	mg/L	1		300.0	Total/NA
Arsenic	0.00081	J	0.0013	0.00046	mg/L	5		6020	Total Recoverable
Barium	0.048		0.0025	0.00049	mg/L	5		6020	Total Recoverable
Calcium	1.7		0.25	0.13	mg/L	5		6020	Total Recoverable
Cobalt	0.010		0.0025	0.00040	mg/L	5		6020	Total Recoverable
Total Dissolved Solids	60		5.0	3.4	mg/L	1		SM 2540C	Total/NA

Client Sample ID: FD-1(AP)

Lab Sample ID: 400-139893-7

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chloride	1.9		1.0	0.89	mg/L	1		300.0	Total/NA
Sulfate	0.72	J	1.0	0.70	mg/L	1		300.0	Total/NA
Arsenic	0.00086	J	0.0013	0.00046	mg/L	5		6020	Total Recoverable
Barium	0.049		0.0025	0.00049	mg/L	5		6020	Total Recoverable
Calcium	1.8		0.25	0.13	mg/L	5		6020	Total Recoverable
Cobalt	0.011		0.0025	0.00040	mg/L	5		6020	Total Recoverable
Total Dissolved Solids	44		5.0	3.4	mg/L	1		SM 2540C	Total/NA

Client Sample ID: SGWA-2

Lab Sample ID: 400-139893-8

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chloride	1.4		1.0	0.89	mg/L	1		300.0	Total/NA
Arsenic	0.00089	J	0.0013	0.00046	mg/L	5		6020	Total Recoverable
Barium	0.037		0.0025	0.00049	mg/L	5		6020	Total Recoverable
Calcium	10		0.25	0.13	mg/L	5		6020	Total Recoverable
Chromium	0.014		0.0025	0.0011	mg/L	5		6020	Total Recoverable
Total Dissolved Solids	110		5.0	3.4	mg/L	1		SM 2540C	Total/NA

Client Sample ID: SGWA-24

Lab Sample ID: 400-139893-9

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chloride	1.9		1.0	0.89	mg/L	1		300.0	Total/NA
Arsenic	0.00090	J	0.0013	0.00046	mg/L	5		6020	Total Recoverable

This Detection Summary does not include radiochemical test results.

TestAmerica Pensacola

Detection Summary

Client: Southern Company
Project/Site: CCR - Plant Scherer

TestAmerica Job ID: 400-139893-1
SDG: Ash Pond

Client Sample ID: SGWA-24 (Continued)

Lab Sample ID: 400-139893-9

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Barium	0.022		0.0025	0.00049	mg/L	5		6020	Total Recoverable
Calcium	13		0.25	0.13	mg/L	5		6020	Total Recoverable
Chromium	0.0047		0.0025	0.0011	mg/L	5		6020	Total Recoverable
Total Dissolved Solids	130		5.0	3.4	mg/L	1		SM 2540C	Total/NA

Client Sample ID: SGWC-22

Lab Sample ID: 400-139893-10

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chloride	10		1.0	0.89	mg/L	1		300.0	Total/NA
Sulfate	90		5.0	3.5	mg/L	5		300.0	Total/NA
Arsenic	0.00089	J	0.0013	0.00046	mg/L	5		6020	Total Recoverable
Barium	0.10		0.0025	0.00049	mg/L	5		6020	Total Recoverable
Boron	0.35		0.050	0.021	mg/L	5		6020	Total Recoverable
Calcium	25		0.25	0.13	mg/L	5		6020	Total Recoverable
Cobalt	0.0029		0.0025	0.00040	mg/L	5		6020	Total Recoverable
Total Dissolved Solids	190		5.0	3.4	mg/L	1		SM 2540C	Total/NA

Client Sample ID: SGWC-19

Lab Sample ID: 400-139893-11

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chloride	7.9		1.0	0.89	mg/L	1		300.0	Total/NA
Sulfate	220		5.0	3.5	mg/L	5		300.0	Total/NA
Arsenic	0.00068	J	0.0013	0.00046	mg/L	5		6020	Total Recoverable
Barium	0.040		0.0025	0.00049	mg/L	5		6020	Total Recoverable
Calcium	36		0.25	0.13	mg/L	5		6020	Total Recoverable
Chromium	0.016		0.0025	0.0011	mg/L	5		6020	Total Recoverable
Selenium	0.00096	J	0.0013	0.00024	mg/L	5		6020	Total Recoverable
Boron - DL	1.9		0.25	0.11	mg/L	25		6020	Total Recoverable
Total Dissolved Solids	340		5.0	3.4	mg/L	1		SM 2540C	Total/NA

Client Sample ID: SGWC-21

Lab Sample ID: 400-139893-12

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chloride	8.1		1.0	0.89	mg/L	1		300.0	Total/NA
Fluoride	0.10	J	0.20	0.082	mg/L	1		300.0	Total/NA
Sulfate	82		5.0	3.5	mg/L	5		300.0	Total/NA
Arsenic	0.00076	J	0.0013	0.00046	mg/L	5		6020	Total Recoverable
Barium	0.094		0.0025	0.00049	mg/L	5		6020	Total Recoverable

This Detection Summary does not include radiochemical test results.

TestAmerica Pensacola

Detection Summary

Client: Southern Company
Project/Site: CCR - Plant Scherer

TestAmerica Job ID: 400-139893-1
SDG: Ash Pond

Client Sample ID: SGWC-21 (Continued)

Lab Sample ID: 400-139893-12

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Boron	1.4		0.050	0.021	mg/L	5		6020	Total Recoverable
Calcium	29		0.25	0.13	mg/L	5		6020	Total Recoverable
Total Dissolved Solids	290		5.0	3.4	mg/L	1		SM 2540C	Total/NA

Client Sample ID: SGWC-23

Lab Sample ID: 400-139893-13

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chloride	9.6		1.0	0.89	mg/L	1		300.0	Total/NA
Sulfate	120		5.0	3.5	mg/L	5		300.0	Total/NA
Arsenic	0.00079	J	0.0013	0.00046	mg/L	5		6020	Total Recoverable
Barium	0.085		0.0025	0.00049	mg/L	5		6020	Total Recoverable
Boron	0.59		0.050	0.021	mg/L	5		6020	Total Recoverable
Calcium	27		0.25	0.13	mg/L	5		6020	Total Recoverable
Chromium	0.0025		0.0025	0.0011	mg/L	5		6020	Total Recoverable
Lithium	0.0032	J	0.0050	0.0032	mg/L	5		6020	Total Recoverable
Selenium	0.00033	J	0.0013	0.00024	mg/L	5		6020	Total Recoverable
Total Dissolved Solids	250		5.0	3.4	mg/L	1		SM 2540C	Total/NA

Client Sample ID: SGWC-18

Lab Sample ID: 400-139893-14

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chloride	10		1.0	0.89	mg/L	1		300.0	Total/NA
Sulfate	390		10	7.0	mg/L	10		300.0	Total/NA
Arsenic	0.0011	J	0.0013	0.00046	mg/L	5		6020	Total Recoverable
Barium	0.012		0.0025	0.00049	mg/L	5		6020	Total Recoverable
Calcium	36		0.25	0.13	mg/L	5		6020	Total Recoverable
Chromium	0.0059		0.0025	0.0011	mg/L	5		6020	Total Recoverable
Cobalt	0.085		0.0025	0.00040	mg/L	5		6020	Total Recoverable
Selenium	0.0047		0.0013	0.00024	mg/L	5		6020	Total Recoverable
Thallium	0.00013	J	0.00050	0.000085	mg/L	5		6020	Total Recoverable
Boron - DL	3.6		0.25	0.11	mg/L	25		6020	Total Recoverable
Total Dissolved Solids	540		5.0	3.4	mg/L	1		SM 2540C	Total/NA

Client Sample ID: SGWC-20

Lab Sample ID: 400-139893-15

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chloride	12		1.0	0.89	mg/L	1		300.0	Total/NA
Fluoride	0.22		0.20	0.082	mg/L	1		300.0	Total/NA

This Detection Summary does not include radiochemical test results.

TestAmerica Pensacola

Detection Summary

Client: Southern Company
Project/Site: CCR - Plant Scherer

TestAmerica Job ID: 400-139893-1
SDG: Ash Pond

Client Sample ID: SGWC-20 (Continued)

Lab Sample ID: 400-139893-15

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Sulfate	240		10	7.0	mg/L	10		300.0	Total/NA
Arsenic	0.00094	J	0.0013	0.00046	mg/L	5		6020	Total Recoverable
Barium	0.030		0.0025	0.00049	mg/L	5		6020	Total Recoverable
Beryllium	0.00073	J	0.0025	0.00034	mg/L	5		6020	Total Recoverable
Calcium	15		0.25	0.13	mg/L	5		6020	Total Recoverable
Cobalt	0.19		0.0025	0.00040	mg/L	5		6020	Total Recoverable
Lead	0.00041	J	0.0013	0.00035	mg/L	5		6020	Total Recoverable
Lithium	0.0032	J	0.0050	0.0032	mg/L	5		6020	Total Recoverable
Selenium	0.00064	J	0.0013	0.00024	mg/L	5		6020	Total Recoverable
Thallium	0.00018	J	0.00050	0.000085	mg/L	5		6020	Total Recoverable
Boron - DL	2.3		0.25	0.11	mg/L	25		6020	Total Recoverable
Total Dissolved Solids	320		5.0	3.4	mg/L	1		SM 2540C	Total/NA

Client Sample ID: FD-3(AP)

Lab Sample ID: 400-139893-16

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chloride	8.1		1.0	0.89	mg/L	1		300.0	Total/NA
Fluoride	0.096	J	0.20	0.082	mg/L	1		300.0	Total/NA
Sulfate	82		5.0	3.5	mg/L	5		300.0	Total/NA
Arsenic	0.00079	J	0.0013	0.00046	mg/L	5		6020	Total Recoverable
Barium	0.095		0.0025	0.00049	mg/L	5		6020	Total Recoverable
Boron	1.5		0.050	0.021	mg/L	5		6020	Total Recoverable
Calcium	29		0.25	0.13	mg/L	5		6020	Total Recoverable
Total Dissolved Solids	260		5.0	3.4	mg/L	1		SM 2540C	Total/NA

Client Sample ID: FB-3(AP)

Lab Sample ID: 400-139893-17

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Selenium	0.00048	J	0.0013	0.00024	mg/L	5		6020	Total Recoverable

Client Sample ID: EB-3(AP)

Lab Sample ID: 400-139893-18

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Lead	0.00044	J	0.0013	0.00035	mg/L	5		6020	Total Recoverable

Client Sample ID: SGWC-7

Lab Sample ID: 400-139893-19

This Detection Summary does not include radiochemical test results.

TestAmerica Pensacola

Detection Summary

Client: Southern Company
Project/Site: CCR - Plant Scherer

TestAmerica Job ID: 400-139893-1
SDG: Ash Pond

Client Sample ID: SGWC-7 (Continued)

Lab Sample ID: 400-139893-19

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chloride	5.7		1.0	0.89	mg/L	1		300.0	Total/NA
Fluoride	0.23		0.20	0.082	mg/L	1		300.0	Total/NA
Sulfate	19		1.0	0.70	mg/L	1		300.0	Total/NA
Barium	0.36		0.0025	0.00049	mg/L	5		6020	Total Recoverable
Boron	0.028	J	0.050	0.021	mg/L	5		6020	Total Recoverable
Calcium	23		0.25	0.13	mg/L	5		6020	Total Recoverable
Cobalt	0.021		0.0025	0.00040	mg/L	5		6020	Total Recoverable
Lithium	0.0033	J	0.0050	0.0032	mg/L	5		6020	Total Recoverable
Molybdenum	0.0021	J	0.015	0.00085	mg/L	5		6020	Total Recoverable
Total Dissolved Solids	180		5.0	3.4	mg/L	1		SM 2540C	Total/NA

Client Sample ID: SGWC-6

Lab Sample ID: 400-139893-20

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chloride	1.6		1.0	0.89	mg/L	1		300.0	Total/NA
Fluoride	0.085	J	0.20	0.082	mg/L	1		300.0	Total/NA
Barium	0.058		0.0025	0.00049	mg/L	5		6020	Total Recoverable
Calcium	6.2		0.25	0.13	mg/L	5		6020	Total Recoverable
Cobalt	0.0045		0.0025	0.00040	mg/L	5		6020	Total Recoverable
Molybdenum	0.00099	J	0.015	0.00085	mg/L	5		6020	Total Recoverable
Selenium	0.00057	J	0.0013	0.00024	mg/L	5		6020	Total Recoverable
Total Dissolved Solids	40		5.0	3.4	mg/L	1		SM 2540C	Total/NA

Client Sample ID: SGWA-25

Lab Sample ID: 400-139893-21

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chloride	2.2		1.0	0.89	mg/L	1		300.0	Total/NA
Arsenic	0.00095	J	0.0013	0.00046	mg/L	5		6020	Total Recoverable
Barium	0.024		0.0025	0.00049	mg/L	5		6020	Total Recoverable
Calcium	9.5		0.25	0.13	mg/L	5		6020	Total Recoverable
Cobalt	0.0088		0.0025	0.00040	mg/L	5		6020	Total Recoverable
Total Dissolved Solids	18		5.0	3.4	mg/L	1		SM 2540C	Total/NA

Client Sample ID: SGWC-17

Lab Sample ID: 400-139893-22

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chloride	8.3		1.0	0.89	mg/L	1		300.0	Total/NA
Sulfate	160		5.0	3.5	mg/L	5		300.0	Total/NA

This Detection Summary does not include radiochemical test results.

TestAmerica Pensacola

Detection Summary

Client: Southern Company
Project/Site: CCR - Plant Scherer

TestAmerica Job ID: 400-139893-1
SDG: Ash Pond

Client Sample ID: SGWC-17 (Continued)

Lab Sample ID: 400-139893-22

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Arsenic	0.00075	J	0.0013	0.00046	mg/L	5		6020	Total Recoverable
Barium	0.019		0.0025	0.00049	mg/L	5		6020	Total Recoverable
Boron	0.33		0.050	0.021	mg/L	5		6020	Total Recoverable
Calcium	42		0.25	0.13	mg/L	5		6020	Total Recoverable
Chromium	0.0029		0.0025	0.0011	mg/L	5		6020	Total Recoverable
Cobalt	0.00041	J	0.0025	0.00040	mg/L	5		6020	Total Recoverable
Selenium	0.00024	J	0.0013	0.00024	mg/L	5		6020	Total Recoverable
Total Dissolved Solids	350		5.0	3.4	mg/L	1		SM 2540C	Total/NA

Client Sample ID: SGWC-11

Lab Sample ID: 400-139893-23

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chloride	7.8		1.0	0.89	mg/L	1		300.0	Total/NA
Sulfate	1.2		1.0	0.70	mg/L	1		300.0	Total/NA
Arsenic	0.0011	J	0.0013	0.00046	mg/L	5		6020	Total Recoverable
Barium	0.042		0.0025	0.00049	mg/L	5		6020	Total Recoverable
Boron	0.29		0.050	0.021	mg/L	5		6020	Total Recoverable
Calcium	1.9		0.25	0.13	mg/L	5		6020	Total Recoverable
Cobalt	0.029		0.0025	0.00040	mg/L	5		6020	Total Recoverable
Total Dissolved Solids	8.0		5.0	3.4	mg/L	1		SM 2540C	Total/NA

Client Sample ID: SGWC-8

Lab Sample ID: 400-139893-24

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chloride	12		1.0	0.89	mg/L	1		300.0	Total/NA
Fluoride	0.47		0.20	0.082	mg/L	1		300.0	Total/NA
Sulfate	77		5.0	3.5	mg/L	5		300.0	Total/NA
Arsenic	0.00076	J	0.0013	0.00046	mg/L	5		6020	Total Recoverable
Barium	0.18		0.0025	0.00049	mg/L	5		6020	Total Recoverable
Boron	0.067		0.050	0.021	mg/L	5		6020	Total Recoverable
Calcium	50		0.25	0.13	mg/L	5		6020	Total Recoverable
Total Dissolved Solids	380		5.0	3.4	mg/L	1		SM 2540C	Total/NA

Client Sample ID: SGWC-12

Lab Sample ID: 400-139893-25

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chloride	9.3		1.0	0.89	mg/L	1		300.0	Total/NA
Fluoride	0.10	J	0.20	0.082	mg/L	1		300.0	Total/NA

This Detection Summary does not include radiochemical test results.

TestAmerica Pensacola

Detection Summary

Client: Southern Company
Project/Site: CCR - Plant Scherer

TestAmerica Job ID: 400-139893-1
SDG: Ash Pond

Client Sample ID: SGWC-12 (Continued)

Lab Sample ID: 400-139893-25

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Sulfate	33		1.0	0.70	mg/L	1		300.0	Total/NA
Arsenic	0.0011	J	0.0013	0.00046	mg/L	5		6020	Total Recoverable
Barium	0.042		0.0025	0.00049	mg/L	5		6020	Total Recoverable
Calcium	22		0.25	0.13	mg/L	5		6020	Total Recoverable
Cobalt	0.0042		0.0025	0.00040	mg/L	5		6020	Total Recoverable
Total Dissolved Solids	200		5.0	3.4	mg/L	1		SM 2540C	Total/NA

Client Sample ID: SGWC-9

Lab Sample ID: 400-139893-26

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chloride	9.9		1.0	0.89	mg/L	1		300.0	Total/NA
Sulfate	340		10	7.0	mg/L	10		300.0	Total/NA
Arsenic	0.0011	J	0.0013	0.00046	mg/L	5		6020	Total Recoverable
Barium	0.067		0.0025	0.00049	mg/L	5		6020	Total Recoverable
Boron	1.8		0.050	0.021	mg/L	5		6020	Total Recoverable
Calcium	53		0.25	0.13	mg/L	5		6020	Total Recoverable
Cobalt	0.013		0.0025	0.00040	mg/L	5		6020	Total Recoverable
Total Dissolved Solids	550		5.0	3.4	mg/L	1		SM 2540C	Total/NA

Client Sample ID: SGWC-13

Lab Sample ID: 400-139893-27

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chloride	5.9		1.0	0.89	mg/L	1		300.0	Total/NA
Sulfate	78		5.0	3.5	mg/L	5		300.0	Total/NA
Arsenic	0.00088	J	0.0013	0.00046	mg/L	5		6020	Total Recoverable
Barium	0.031		0.0025	0.00049	mg/L	5		6020	Total Recoverable
Boron	0.51		0.050	0.021	mg/L	5		6020	Total Recoverable
Calcium	15		0.25	0.13	mg/L	5		6020	Total Recoverable
Cobalt	0.0068		0.0025	0.00040	mg/L	5		6020	Total Recoverable
Total Dissolved Solids	170		5.0	3.4	mg/L	1		SM 2540C	Total/NA

Client Sample ID: FD-2

Lab Sample ID: 400-139893-28

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chloride	7.8		1.0	0.89	mg/L	1		300.0	Total/NA
Sulfate	1.1		1.0	0.70	mg/L	1		300.0	Total/NA
Arsenic	0.0012	J	0.0013	0.00046	mg/L	5		6020	Total Recoverable
Barium	0.041		0.0025	0.00049	mg/L	5		6020	Total Recoverable

This Detection Summary does not include radiochemical test results.

TestAmerica Pensacola

Detection Summary

Client: Southern Company
Project/Site: CCR - Plant Scherer

TestAmerica Job ID: 400-139893-1
SDG: Ash Pond

Client Sample ID: FD-2 (Continued)

Lab Sample ID: 400-139893-28

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Boron	0.30		0.050	0.021	mg/L	5		6020	Total Recoverable
Calcium	1.9		0.25	0.13	mg/L	5		6020	Total Recoverable
Cobalt	0.030		0.0025	0.00040	mg/L	5		6020	Total Recoverable
Total Dissolved Solids	40		5.0	3.4	mg/L	1		SM 2540C	Total/NA

Client Sample ID: FB-2(AP)

Lab Sample ID: 400-139893-29

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Arsenic	0.00061	J	0.0013	0.00046	mg/L	5		6020	Total Recoverable

Client Sample ID: EB-2(AP)

Lab Sample ID: 400-139893-30

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Arsenic	0.00059	J	0.0013	0.00046	mg/L	5		6020	Total Recoverable

Client Sample ID: SGWC-10

Lab Sample ID: 400-139893-31

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chloride	9.1		1.0	0.89	mg/L	1		300.0	Total/NA
Sulfate	8.2		1.0	0.70	mg/L	1		300.0	Total/NA
Arsenic	0.00074	J	0.0013	0.00046	mg/L	5		6020	Total Recoverable
Barium	0.034		0.0025	0.00049	mg/L	5		6020	Total Recoverable
Calcium	3.1		0.25	0.13	mg/L	5		6020	Total Recoverable
Cobalt	0.014		0.0025	0.00040	mg/L	5		6020	Total Recoverable
Total Dissolved Solids	50		5.0	3.4	mg/L	1		SM 2540C	Total/NA

Client Sample ID: SGWC-14

Lab Sample ID: 400-139893-32

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chloride	11		1.0	0.89	mg/L	1		300.0	Total/NA
Sulfate	200		5.0	3.5	mg/L	5		300.0	Total/NA
Arsenic	0.00058	J	0.0013	0.00046	mg/L	5		6020	Total Recoverable
Barium	0.060		0.0025	0.00049	mg/L	5		6020	Total Recoverable
Boron	1.6		0.050	0.021	mg/L	5		6020	Total Recoverable
Calcium	38		0.25	0.13	mg/L	5		6020	Total Recoverable
Cobalt	0.013		0.0025	0.00040	mg/L	5		6020	Total Recoverable
Total Dissolved Solids	320		5.0	3.4	mg/L	1		SM 2540C	Total/NA

Client Sample ID: SGWC-15

Lab Sample ID: 400-139893-33

This Detection Summary does not include radiochemical test results.

TestAmerica Pensacola

Detection Summary

Client: Southern Company
Project/Site: CCR - Plant Scherer

TestAmerica Job ID: 400-139893-1
SDG: Ash Pond

Client Sample ID: SGWC-15 (Continued)

Lab Sample ID: 400-139893-33

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chloride	9.5		1.0	0.89	mg/L	1		300.0	Total/NA
Fluoride	0.13	J	0.20	0.082	mg/L	1		300.0	Total/NA
Sulfate	200		5.0	3.5	mg/L	5		300.0	Total/NA
Arsenic	0.0011	J	0.0013	0.00046	mg/L	5		6020	Total Recoverable
Barium	0.041		0.0025	0.00049	mg/L	5		6020	Total Recoverable
Beryllium	0.00040	J	0.0025	0.00034	mg/L	5		6020	Total Recoverable
Boron	1.7		0.050	0.021	mg/L	5		6020	Total Recoverable
Calcium	16		0.25	0.13	mg/L	5		6020	Total Recoverable
Chromium	0.035		0.0025	0.0011	mg/L	5		6020	Total Recoverable
Cobalt	0.29		0.0025	0.00040	mg/L	5		6020	Total Recoverable
Thallium	0.00010	J	0.00050	0.000085	mg/L	5		6020	Total Recoverable
Selenium - RA	0.0013		0.0013	0.00024	mg/L	5		6020	Total Recoverable
Mercury	0.000084	J	0.00020	0.000070	mg/L	1		7470A	Total/NA
Total Dissolved Solids	290		5.0	3.4	mg/L	1		SM 2540C	Total/NA

Client Sample ID: SGWC-16

Lab Sample ID: 400-139893-34

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chloride	8.0		1.0	0.89	mg/L	1		300.0	Total/NA
Sulfate	19		1.0	0.70	mg/L	1		300.0	Total/NA
Arsenic	0.00055	J	0.0013	0.00046	mg/L	5		6020	Total Recoverable
Barium	0.020		0.0025	0.00049	mg/L	5		6020	Total Recoverable
Boron	0.56		0.050	0.021	mg/L	5		6020	Total Recoverable
Calcium	0.76		0.25	0.13	mg/L	5		6020	Total Recoverable
Chromium	0.0096		0.0025	0.0011	mg/L	5		6020	Total Recoverable
Cobalt	0.0037		0.0025	0.00040	mg/L	5		6020	Total Recoverable
Selenium - RA	0.0010	J	0.0013	0.00024	mg/L	5		6020	Total Recoverable
Total Dissolved Solids	50		5.0	3.4	mg/L	1		SM 2540C	Total/NA

This Detection Summary does not include radiochemical test results.

TestAmerica Pensacola

Method Summary

Client: Southern Company
Project/Site: CCR - Plant Scherer

TestAmerica Job ID: 400-139893-1
SDG: Ash Pond

Method	Method Description	Protocol	Laboratory
300.0	Anions, Ion Chromatography	MCAWW	TAL PEN
6020	Metals (ICP/MS)	SW846	TAL PEN
7470A	Mercury (CVAA)	SW846	TAL PEN
SM 2540C	Solids, Total Dissolved (TDS)	SM	TAL PEN

Protocol References:

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:

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

Sample Summary

Client: Southern Company
Project/Site: CCR - Plant Scherer

TestAmerica Job ID: 400-139893-1
SDG: Ash Pond

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
400-139893-1	SGWA-4	Water	06/26/17 14:30	06/28/17 08:33
400-139893-2	EB-1(AP)	Water	06/26/17 15:30	06/28/17 08:33
400-139893-3	SGWA-3	Water	06/26/17 12:55	06/28/17 08:33
400-139893-4	SGWA-5	Water	06/26/17 10:25	06/28/17 08:33
400-139893-5	FB-1(AP)	Water	06/26/17 10:00	06/28/17 08:33
400-139893-6	SGWA-1	Water	06/26/17 13:50	06/28/17 08:33
400-139893-7	FD-1(AP)	Water	06/26/17 00:00	06/28/17 08:33
400-139893-8	SGWA-2	Water	06/26/17 15:30	06/28/17 08:33
400-139893-9	SGWA-24	Water	06/26/17 14:55	06/28/17 08:33
400-139893-10	SGWC-22	Water	06/28/17 09:15	06/29/17 08:50
400-139893-11	SGWC-19	Water	06/28/17 09:10	06/29/17 08:50
400-139893-12	SGWC-21	Water	06/28/17 09:35	06/29/17 08:50
400-139893-13	SGWC-23	Water	06/28/17 10:35	06/29/17 08:50
400-139893-14	SGWC-18	Water	06/28/17 10:15	06/29/17 08:50
400-139893-15	SGWC-20	Water	06/28/17 11:05	06/29/17 08:50
400-139893-16	FD-3(AP)	Water	06/28/17 00:00	06/29/17 08:50
400-139893-17	FB-3(AP)	Water	06/28/17 08:40	06/29/17 08:50
400-139893-18	EB-3(AP)	Water	06/28/17 11:00	06/29/17 08:50
400-139893-19	SGWC-7	Water	06/27/17 12:45	06/29/17 08:50
400-139893-20	SGWC-6	Water	06/27/17 10:25	06/29/17 08:50
400-139893-21	SGWA-25	Water	06/27/17 09:20	06/29/17 08:50
400-139893-22	SGWC-17	Water	06/27/17 14:40	06/29/17 08:50
400-139893-23	SGWC-11	Water	06/27/17 09:20	06/29/17 08:50
400-139893-24	SGWC-8	Water	06/27/17 09:30	06/29/17 08:50
400-139893-25	SGWC-12	Water	06/27/17 10:50	06/29/17 08:50
400-139893-26	SGWC-9	Water	06/27/17 10:50	06/29/17 08:50
400-139893-27	SGWC-13	Water	06/27/17 11:55	06/29/17 08:50
400-139893-28	FD-2	Water	06/27/17 00:00	06/29/17 08:50
400-139893-29	FB-2(AP)	Water	06/27/17 08:50	06/29/17 08:50
400-139893-30	EB-2(AP)	Water	06/27/17 15:20	06/29/17 08:50
400-139893-31	SGWC-10	Water	06/27/17 13:45	06/29/17 08:50
400-139893-32	SGWC-14	Water	06/27/17 13:55	06/29/17 08:50
400-139893-33	SGWC-15	Water	06/27/17 14:55	06/29/17 08:50
400-139893-34	SGWC-16	Water	06/27/17 15:20	06/29/17 08:50

Client Sample Results

Client: Southern Company
Project/Site: CCR - Plant Scherer

TestAmerica Job ID: 400-139893-1
SDG: Ash Pond

Client Sample ID: SGWA-4

Date Collected: 06/26/17 14:30

Date Received: 06/28/17 08:33

Lab Sample ID: 400-139893-1

Matrix: Water

Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	1.2		1.0	0.89	mg/L			06/30/17 17:37	1
Fluoride	<0.082		0.20	0.082	mg/L			06/30/17 17:37	1
Sulfate	0.99	J	1.0	0.70	mg/L			06/30/17 17:37	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0010		0.0025	0.0010	mg/L		07/05/17 16:06	07/06/17 13:28	5
Arsenic	0.00055	J	0.0013	0.00046	mg/L		07/05/17 16:06	07/06/17 13:28	5
Barium	0.058		0.0025	0.00049	mg/L		07/05/17 16:06	07/06/17 13:28	5
Beryllium	<0.00034		0.0025	0.00034	mg/L		07/05/17 16:06	07/06/17 13:28	5
Boron	<0.021		0.050	0.021	mg/L		07/05/17 16:06	07/06/17 13:28	5
Cadmium	<0.00034		0.0025	0.00034	mg/L		07/05/17 16:06	07/06/17 13:28	5
Calcium	18		0.25	0.13	mg/L		07/05/17 16:06	07/06/17 13:28	5
Chromium	0.0061		0.0025	0.0011	mg/L		07/05/17 16:06	07/06/17 13:28	5
Cobalt	<0.00040		0.0025	0.00040	mg/L		07/05/17 16:06	07/06/17 13:28	5
Lead	<0.00035		0.0013	0.00035	mg/L		07/05/17 16:06	07/06/17 13:28	5
Lithium	<0.0032		0.0050	0.0032	mg/L		07/05/17 16:06	07/06/17 13:28	5
Molybdenum	0.0016	J	0.015	0.00085	mg/L		07/05/17 16:06	07/06/17 13:28	5
Selenium	0.00041	J	0.0013	0.00024	mg/L		07/05/17 16:06	07/06/17 13:28	5
Thallium	<0.000085		0.00050	0.000085	mg/L		07/05/17 16:06	07/06/17 13:28	5

Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.000070		0.00020	0.000070	mg/L		07/08/17 13:06	07/10/17 11:38	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	110		5.0	3.4	mg/L			06/29/17 16:16	1

Client Sample Results

Client: Southern Company
Project/Site: CCR - Plant Scherer

TestAmerica Job ID: 400-139893-1
SDG: Ash Pond

Client Sample ID: EB-1(AP)

Date Collected: 06/26/17 15:30

Date Received: 06/28/17 08:33

Lab Sample ID: 400-139893-2

Matrix: Water

Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<0.89		1.0	0.89	mg/L			06/30/17 18:46	1
Fluoride	<0.082		0.20	0.082	mg/L			06/30/17 18:46	1
Sulfate	<0.70		1.0	0.70	mg/L			06/30/17 18:46	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0010		0.0025	0.0010	mg/L		07/05/17 16:06	07/06/17 13:33	5
Arsenic	0.00056	J	0.0013	0.00046	mg/L		07/05/17 16:06	07/06/17 13:33	5
Barium	<0.00049		0.0025	0.00049	mg/L		07/05/17 16:06	07/06/17 13:33	5
Beryllium	<0.00034		0.0025	0.00034	mg/L		07/05/17 16:06	07/06/17 13:33	5
Boron	<0.021		0.050	0.021	mg/L		07/05/17 16:06	07/06/17 13:33	5
Cadmium	<0.00034		0.0025	0.00034	mg/L		07/05/17 16:06	07/06/17 13:33	5
Calcium	<0.13		0.25	0.13	mg/L		07/05/17 16:06	07/06/17 13:33	5
Chromium	<0.0011		0.0025	0.0011	mg/L		07/05/17 16:06	07/06/17 13:33	5
Cobalt	<0.00040		0.0025	0.00040	mg/L		07/05/17 16:06	07/06/17 13:33	5
Lead	<0.00035		0.0013	0.00035	mg/L		07/05/17 16:06	07/06/17 13:33	5
Lithium	<0.0032		0.0050	0.0032	mg/L		07/05/17 16:06	07/06/17 13:33	5
Molybdenum	<0.00085		0.015	0.00085	mg/L		07/05/17 16:06	07/06/17 13:33	5
Selenium	0.00028	J	0.0013	0.00024	mg/L		07/05/17 16:06	07/06/17 13:33	5
Thallium	<0.000085		0.00050	0.000085	mg/L		07/05/17 16:06	07/06/17 13:33	5

Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.000070		0.00020	0.000070	mg/L		07/08/17 13:06	07/10/17 11:44	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	<3.4		5.0	3.4	mg/L			06/29/17 16:16	1

Client Sample Results

Client: Southern Company
Project/Site: CCR - Plant Scherer

TestAmerica Job ID: 400-139893-1
SDG: Ash Pond

Client Sample ID: SGWA-3
Date Collected: 06/26/17 12:55
Date Received: 06/28/17 08:33

Lab Sample ID: 400-139893-3
Matrix: Water

Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	2.6		1.0	0.89	mg/L			07/03/17 18:39	1
Fluoride	<0.082		0.20	0.082	mg/L			07/03/17 18:39	1
Sulfate	1.5		1.0	0.70	mg/L			07/03/17 18:39	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0010		0.0025	0.0010	mg/L		07/05/17 16:06	07/06/17 13:37	5
Arsenic	0.00063	J	0.0013	0.00046	mg/L		07/05/17 16:06	07/06/17 13:37	5
Barium	0.036		0.0025	0.00049	mg/L		07/05/17 16:06	07/06/17 13:37	5
Beryllium	<0.00034		0.0025	0.00034	mg/L		07/05/17 16:06	07/06/17 13:37	5
Boron	<0.021		0.050	0.021	mg/L		07/05/17 16:06	07/06/17 13:37	5
Cadmium	<0.00034		0.0025	0.00034	mg/L		07/05/17 16:06	07/06/17 13:37	5
Calcium	4.9		0.25	0.13	mg/L		07/05/17 16:06	07/06/17 13:37	5
Chromium	0.012		0.0025	0.0011	mg/L		07/05/17 16:06	07/06/17 13:37	5
Cobalt	<0.00040		0.0025	0.00040	mg/L		07/05/17 16:06	07/06/17 13:37	5
Lead	<0.00035		0.0013	0.00035	mg/L		07/05/17 16:06	07/06/17 13:37	5
Lithium	<0.0032		0.0050	0.0032	mg/L		07/05/17 16:06	07/06/17 13:37	5
Molybdenum	<0.00085		0.015	0.00085	mg/L		07/05/17 16:06	07/06/17 13:37	5
Selenium	0.00029	J	0.0013	0.00024	mg/L		07/05/17 16:06	07/06/17 13:37	5
Thallium	<0.000085		0.00050	0.000085	mg/L		07/05/17 16:06	07/06/17 13:37	5

Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.000070		0.00020	0.000070	mg/L		07/08/17 13:06	07/10/17 11:46	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	64		5.0	3.4	mg/L			06/29/17 16:16	1

Client Sample Results

Client: Southern Company
Project/Site: CCR - Plant Scherer

TestAmerica Job ID: 400-139893-1
SDG: Ash Pond

Client Sample ID: SGWA-5

Date Collected: 06/26/17 10:25

Date Received: 06/28/17 08:33

Lab Sample ID: 400-139893-4

Matrix: Water

Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	1.7		1.0	0.89	mg/L			06/30/17 19:09	1
Fluoride	<0.082		0.20	0.082	mg/L			06/30/17 19:09	1
Sulfate	<0.70		1.0	0.70	mg/L			06/30/17 19:09	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0010		0.0025	0.0010	mg/L		07/05/17 16:06	07/06/17 13:42	5
Arsenic	0.00079	J	0.0013	0.00046	mg/L		07/05/17 16:06	07/06/17 13:42	5
Barium	0.011		0.0025	0.00049	mg/L		07/05/17 16:06	07/06/17 13:42	5
Beryllium	<0.00034		0.0025	0.00034	mg/L		07/05/17 16:06	07/06/17 13:42	5
Boron	<0.021		0.050	0.021	mg/L		07/05/17 16:06	07/06/17 13:42	5
Cadmium	<0.00034		0.0025	0.00034	mg/L		07/05/17 16:06	07/06/17 13:42	5
Calcium	1.5		0.25	0.13	mg/L		07/05/17 16:06	07/06/17 13:42	5
Chromium	0.0021	J	0.0025	0.0011	mg/L		07/05/17 16:06	07/06/17 13:42	5
Cobalt	<0.00040		0.0025	0.00040	mg/L		07/05/17 16:06	07/06/17 13:42	5
Lead	<0.00035		0.0013	0.00035	mg/L		07/05/17 16:06	07/06/17 13:42	5
Lithium	<0.0032		0.0050	0.0032	mg/L		07/05/17 16:06	07/06/17 13:42	5
Molybdenum	<0.00085		0.015	0.00085	mg/L		07/05/17 16:06	07/06/17 13:42	5
Selenium	<0.00024		0.0013	0.00024	mg/L		07/05/17 16:06	07/06/17 13:42	5
Thallium	<0.000085		0.00050	0.000085	mg/L		07/05/17 16:06	07/06/17 13:42	5

Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.000070		0.00020	0.000070	mg/L		07/08/17 13:06	07/10/17 11:48	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	80		5.0	3.4	mg/L			06/29/17 16:16	1

Client Sample Results

Client: Southern Company
Project/Site: CCR - Plant Scherer

TestAmerica Job ID: 400-139893-1
SDG: Ash Pond

Client Sample ID: FB-1(AP)

Date Collected: 06/26/17 10:00

Date Received: 06/28/17 08:33

Lab Sample ID: 400-139893-5

Matrix: Water

Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<0.89		1.0	0.89	mg/L			06/30/17 19:31	1
Fluoride	<0.082		0.20	0.082	mg/L			06/30/17 19:31	1
Sulfate	<0.70		1.0	0.70	mg/L			06/30/17 19:31	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0010		0.0025	0.0010	mg/L		07/05/17 16:06	07/06/17 13:46	5
Arsenic	0.00061	J	0.0013	0.00046	mg/L		07/05/17 16:06	07/06/17 13:46	5
Barium	<0.00049		0.0025	0.00049	mg/L		07/05/17 16:06	07/06/17 13:46	5
Beryllium	<0.00034		0.0025	0.00034	mg/L		07/05/17 16:06	07/06/17 13:46	5
Boron	<0.021		0.050	0.021	mg/L		07/05/17 16:06	07/06/17 13:46	5
Cadmium	<0.00034		0.0025	0.00034	mg/L		07/05/17 16:06	07/06/17 13:46	5
Calcium	<0.13		0.25	0.13	mg/L		07/05/17 16:06	07/06/17 13:46	5
Chromium	<0.0011		0.0025	0.0011	mg/L		07/05/17 16:06	07/06/17 13:46	5
Cobalt	<0.00040		0.0025	0.00040	mg/L		07/05/17 16:06	07/06/17 13:46	5
Lead	<0.00035		0.0013	0.00035	mg/L		07/05/17 16:06	07/06/17 13:46	5
Lithium	<0.0032		0.0050	0.0032	mg/L		07/05/17 16:06	07/06/17 13:46	5
Molybdenum	<0.00085		0.015	0.00085	mg/L		07/05/17 16:06	07/06/17 13:46	5
Selenium	<0.00024		0.0013	0.00024	mg/L		07/05/17 16:06	07/06/17 13:46	5
Thallium	<0.000085		0.00050	0.000085	mg/L		07/05/17 16:06	07/06/17 13:46	5

Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.000070		0.00020	0.000070	mg/L		07/08/17 13:06	07/10/17 11:49	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	<3.4		5.0	3.4	mg/L			06/29/17 16:16	1

Client Sample Results

Client: Southern Company
Project/Site: CCR - Plant Scherer

TestAmerica Job ID: 400-139893-1
SDG: Ash Pond

Client Sample ID: SGWA-1
Date Collected: 06/26/17 13:50
Date Received: 06/28/17 08:33

Lab Sample ID: 400-139893-6
Matrix: Water

Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	1.9		1.0	0.89	mg/L			07/01/17 09:52	1
Fluoride	<0.082		0.20	0.082	mg/L			07/01/17 09:52	1
Sulfate	0.74	J	1.0	0.70	mg/L			07/01/17 09:52	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0010		0.0025	0.0010	mg/L		07/05/17 16:06	07/06/17 13:51	5
Arsenic	0.00081	J	0.0013	0.00046	mg/L		07/05/17 16:06	07/06/17 13:51	5
Barium	0.048		0.0025	0.00049	mg/L		07/05/17 16:06	07/06/17 13:51	5
Beryllium	<0.00034		0.0025	0.00034	mg/L		07/05/17 16:06	07/06/17 13:51	5
Boron	<0.021		0.050	0.021	mg/L		07/05/17 16:06	07/06/17 13:51	5
Cadmium	<0.00034		0.0025	0.00034	mg/L		07/05/17 16:06	07/06/17 13:51	5
Calcium	1.7		0.25	0.13	mg/L		07/05/17 16:06	07/06/17 13:51	5
Chromium	<0.0011		0.0025	0.0011	mg/L		07/05/17 16:06	07/06/17 13:51	5
Cobalt	0.010		0.0025	0.00040	mg/L		07/05/17 16:06	07/06/17 13:51	5
Lead	<0.00035		0.0013	0.00035	mg/L		07/05/17 16:06	07/06/17 13:51	5
Lithium	<0.0032		0.0050	0.0032	mg/L		07/05/17 16:06	07/06/17 13:51	5
Molybdenum	<0.00085		0.015	0.00085	mg/L		07/05/17 16:06	07/06/17 13:51	5
Selenium	<0.00024		0.0013	0.00024	mg/L		07/05/17 16:06	07/06/17 13:51	5
Thallium	<0.000085		0.00050	0.000085	mg/L		07/05/17 16:06	07/06/17 13:51	5

Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.000070		0.00020	0.000070	mg/L		07/08/17 13:06	07/10/17 11:59	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	60		5.0	3.4	mg/L			06/29/17 16:16	1

Client Sample Results

Client: Southern Company
Project/Site: CCR - Plant Scherer

TestAmerica Job ID: 400-139893-1
SDG: Ash Pond

Client Sample ID: FD-1(AP)

Date Collected: 06/26/17 00:00

Date Received: 06/28/17 08:33

Lab Sample ID: 400-139893-7

Matrix: Water

Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	1.9		1.0	0.89	mg/L			07/01/17 10:15	1
Fluoride	<0.082		0.20	0.082	mg/L			07/01/17 10:15	1
Sulfate	0.72	J	1.0	0.70	mg/L			07/01/17 10:15	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0010		0.0025	0.0010	mg/L		07/05/17 16:06	07/06/17 13:56	5
Arsenic	0.00086	J	0.0013	0.00046	mg/L		07/05/17 16:06	07/06/17 13:56	5
Barium	0.049		0.0025	0.00049	mg/L		07/05/17 16:06	07/06/17 13:56	5
Beryllium	<0.00034		0.0025	0.00034	mg/L		07/05/17 16:06	07/06/17 13:56	5
Boron	<0.021		0.050	0.021	mg/L		07/05/17 16:06	07/06/17 13:56	5
Cadmium	<0.00034		0.0025	0.00034	mg/L		07/05/17 16:06	07/06/17 13:56	5
Calcium	1.8		0.25	0.13	mg/L		07/05/17 16:06	07/06/17 13:56	5
Chromium	<0.0011		0.0025	0.0011	mg/L		07/05/17 16:06	07/06/17 13:56	5
Cobalt	0.011		0.0025	0.00040	mg/L		07/05/17 16:06	07/06/17 13:56	5
Lead	<0.00035		0.0013	0.00035	mg/L		07/05/17 16:06	07/06/17 13:56	5
Lithium	<0.0032		0.0050	0.0032	mg/L		07/05/17 16:06	07/06/17 13:56	5
Molybdenum	<0.00085		0.015	0.00085	mg/L		07/05/17 16:06	07/06/17 13:56	5
Selenium	<0.00024		0.0013	0.00024	mg/L		07/05/17 16:06	07/06/17 13:56	5
Thallium	<0.000085		0.00050	0.000085	mg/L		07/05/17 16:06	07/06/17 13:56	5

Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.000070		0.00020	0.000070	mg/L		07/08/17 13:06	07/10/17 12:01	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	44		5.0	3.4	mg/L			06/29/17 16:16	1

Client Sample Results

Client: Southern Company
Project/Site: CCR - Plant Scherer

TestAmerica Job ID: 400-139893-1
SDG: Ash Pond

Client Sample ID: SGWA-2

Lab Sample ID: 400-139893-8

Date Collected: 06/26/17 15:30

Matrix: Water

Date Received: 06/28/17 08:33

Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	1.4		1.0	0.89	mg/L			07/01/17 10:37	1
Fluoride	<0.082		0.20	0.082	mg/L			07/01/17 10:37	1
Sulfate	<0.70		1.0	0.70	mg/L			07/01/17 10:37	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0010		0.0025	0.0010	mg/L		07/05/17 16:06	07/06/17 14:00	5
Arsenic	0.00089	J	0.0013	0.00046	mg/L		07/05/17 16:06	07/06/17 14:00	5
Barium	0.037		0.0025	0.00049	mg/L		07/05/17 16:06	07/06/17 14:00	5
Beryllium	<0.00034		0.0025	0.00034	mg/L		07/05/17 16:06	07/06/17 14:00	5
Boron	<0.021		0.050	0.021	mg/L		07/05/17 16:06	07/06/17 14:00	5
Cadmium	<0.00034		0.0025	0.00034	mg/L		07/05/17 16:06	07/06/17 14:00	5
Calcium	10		0.25	0.13	mg/L		07/05/17 16:06	07/06/17 14:00	5
Chromium	0.014		0.0025	0.0011	mg/L		07/05/17 16:06	07/06/17 14:00	5
Cobalt	<0.00040		0.0025	0.00040	mg/L		07/05/17 16:06	07/06/17 14:00	5
Lead	<0.00035		0.0013	0.00035	mg/L		07/05/17 16:06	07/06/17 14:00	5
Lithium	<0.0032		0.0050	0.0032	mg/L		07/05/17 16:06	07/06/17 14:00	5
Molybdenum	<0.00085		0.015	0.00085	mg/L		07/05/17 16:06	07/06/17 14:00	5
Selenium	<0.00024		0.0013	0.00024	mg/L		07/05/17 16:06	07/06/17 14:00	5
Thallium	<0.000085		0.00050	0.000085	mg/L		07/05/17 16:06	07/06/17 14:00	5

Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.000070		0.00020	0.000070	mg/L		07/08/17 13:06	07/10/17 12:03	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	110		5.0	3.4	mg/L			06/29/17 16:16	1

Client Sample Results

Client: Southern Company
Project/Site: CCR - Plant Scherer

TestAmerica Job ID: 400-139893-1
SDG: Ash Pond

Client Sample ID: SGWA-24

Date Collected: 06/26/17 14:55

Date Received: 06/28/17 08:33

Lab Sample ID: 400-139893-9

Matrix: Water

Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	1.9		1.0	0.89	mg/L			07/01/17 11:00	1
Fluoride	<0.082		0.20	0.082	mg/L			07/01/17 11:00	1
Sulfate	<0.70		1.0	0.70	mg/L			07/01/17 11:00	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0010		0.0025	0.0010	mg/L		07/05/17 16:06	07/06/17 14:05	5
Arsenic	0.00090	J	0.0013	0.00046	mg/L		07/05/17 16:06	07/06/17 14:05	5
Barium	0.022		0.0025	0.00049	mg/L		07/05/17 16:06	07/06/17 14:05	5
Beryllium	<0.00034		0.0025	0.00034	mg/L		07/05/17 16:06	07/06/17 14:05	5
Boron	<0.021		0.050	0.021	mg/L		07/05/17 16:06	07/06/17 14:05	5
Cadmium	<0.00034		0.0025	0.00034	mg/L		07/05/17 16:06	07/06/17 14:05	5
Calcium	13		0.25	0.13	mg/L		07/05/17 16:06	07/06/17 14:05	5
Chromium	0.0047		0.0025	0.0011	mg/L		07/05/17 16:06	07/06/17 14:05	5
Cobalt	<0.00040		0.0025	0.00040	mg/L		07/05/17 16:06	07/06/17 14:05	5
Lead	<0.00035		0.0013	0.00035	mg/L		07/05/17 16:06	07/06/17 14:05	5
Lithium	<0.0032		0.0050	0.0032	mg/L		07/05/17 16:06	07/06/17 14:05	5
Molybdenum	<0.00085		0.015	0.00085	mg/L		07/05/17 16:06	07/06/17 14:05	5
Selenium	<0.00024		0.0013	0.00024	mg/L		07/05/17 16:06	07/06/17 14:05	5
Thallium	<0.000085		0.00050	0.000085	mg/L		07/05/17 16:06	07/06/17 14:05	5

Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.000070		0.00020	0.000070	mg/L		07/08/17 13:06	07/10/17 12:05	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	130		5.0	3.4	mg/L			06/29/17 16:16	1

Client Sample Results

Client: Southern Company
Project/Site: CCR - Plant Scherer

TestAmerica Job ID: 400-139893-1
SDG: Ash Pond

Client Sample ID: SGWC-22

Date Collected: 06/28/17 09:15

Date Received: 06/29/17 08:50

Lab Sample ID: 400-139893-10

Matrix: Water

Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	10		1.0	0.89	mg/L			07/01/17 11:23	1
Fluoride	<0.082		0.20	0.082	mg/L			07/01/17 11:23	1
Sulfate	90		5.0	3.5	mg/L			07/03/17 19:02	5

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0010		0.0025	0.0010	mg/L		07/05/17 16:06	07/06/17 14:10	5
Arsenic	0.00089	J	0.0013	0.00046	mg/L		07/05/17 16:06	07/06/17 14:10	5
Barium	0.10		0.0025	0.00049	mg/L		07/05/17 16:06	07/06/17 14:10	5
Beryllium	<0.00034		0.0025	0.00034	mg/L		07/05/17 16:06	07/06/17 14:10	5
Boron	0.35		0.050	0.021	mg/L		07/05/17 16:06	07/06/17 14:10	5
Cadmium	<0.00034		0.0025	0.00034	mg/L		07/05/17 16:06	07/06/17 14:10	5
Calcium	25		0.25	0.13	mg/L		07/05/17 16:06	07/06/17 14:10	5
Chromium	<0.0011		0.0025	0.0011	mg/L		07/05/17 16:06	07/06/17 14:10	5
Cobalt	0.0029		0.0025	0.00040	mg/L		07/05/17 16:06	07/06/17 14:10	5
Lead	<0.00035		0.0013	0.00035	mg/L		07/05/17 16:06	07/06/17 14:10	5
Lithium	<0.0032		0.0050	0.0032	mg/L		07/05/17 16:06	07/06/17 14:10	5
Molybdenum	<0.00085		0.015	0.00085	mg/L		07/05/17 16:06	07/06/17 14:10	5
Selenium	<0.00024		0.0013	0.00024	mg/L		07/05/17 16:06	07/06/17 14:10	5
Thallium	<0.000085		0.00050	0.000085	mg/L		07/05/17 16:06	07/06/17 14:10	5

Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.000070		0.00020	0.000070	mg/L		07/08/17 13:06	07/10/17 12:06	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	190		5.0	3.4	mg/L			07/02/17 13:14	1

Client Sample Results

Client: Southern Company
Project/Site: CCR - Plant Scherer

TestAmerica Job ID: 400-139893-1
SDG: Ash Pond

Client Sample ID: SGWC-19

Lab Sample ID: 400-139893-11

Date Collected: 06/28/17 09:10

Matrix: Water

Date Received: 06/29/17 08:50

Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	7.9		1.0	0.89	mg/L			07/01/17 11:46	1
Fluoride	<0.082		0.20	0.082	mg/L			07/01/17 11:46	1
Sulfate	220		5.0	3.5	mg/L			07/03/17 19:25	5

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0010		0.0025	0.0010	mg/L		07/05/17 16:06	07/06/17 14:32	5
Arsenic	0.00068	J	0.0013	0.00046	mg/L		07/05/17 16:06	07/06/17 14:32	5
Barium	0.040		0.0025	0.00049	mg/L		07/05/17 16:06	07/06/17 14:32	5
Beryllium	<0.00034		0.0025	0.00034	mg/L		07/05/17 16:06	07/06/17 14:32	5
Cadmium	<0.00034		0.0025	0.00034	mg/L		07/05/17 16:06	07/06/17 14:32	5
Calcium	36		0.25	0.13	mg/L		07/05/17 16:06	07/06/17 14:32	5
Chromium	0.016		0.0025	0.0011	mg/L		07/05/17 16:06	07/06/17 14:32	5
Cobalt	<0.00040		0.0025	0.00040	mg/L		07/05/17 16:06	07/06/17 14:32	5
Lead	<0.00035		0.0013	0.00035	mg/L		07/05/17 16:06	07/06/17 14:32	5
Lithium	<0.0032		0.0050	0.0032	mg/L		07/05/17 16:06	07/06/17 14:32	5
Molybdenum	<0.00085		0.015	0.00085	mg/L		07/05/17 16:06	07/06/17 14:32	5
Selenium	0.00096	J	0.0013	0.00024	mg/L		07/05/17 16:06	07/06/17 14:32	5
Thallium	<0.00085		0.00050	0.00085	mg/L		07/05/17 16:06	07/06/17 14:32	5

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Boron	1.9		0.25	0.11	mg/L		07/05/17 16:06	07/06/17 20:29	25

Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.000070		0.00020	0.000070	mg/L		07/08/17 13:06	07/10/17 12:08	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	340		5.0	3.4	mg/L			07/02/17 13:14	1

Client Sample Results

Client: Southern Company
Project/Site: CCR - Plant Scherer

TestAmerica Job ID: 400-139893-1
SDG: Ash Pond

Client Sample ID: SGWC-21

Lab Sample ID: 400-139893-12

Date Collected: 06/28/17 09:35

Matrix: Water

Date Received: 06/29/17 08:50

Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	8.1		1.0	0.89	mg/L			07/01/17 22:05	1
Fluoride	0.10	J	0.20	0.082	mg/L			07/01/17 22:05	1
Sulfate	82		5.0	3.5	mg/L			07/03/17 19:48	5

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0010		0.0025	0.0010	mg/L		07/05/17 16:06	07/06/17 14:37	5
Arsenic	0.00076	J	0.0013	0.00046	mg/L		07/05/17 16:06	07/06/17 14:37	5
Barium	0.094		0.0025	0.00049	mg/L		07/05/17 16:06	07/06/17 14:37	5
Beryllium	<0.00034		0.0025	0.00034	mg/L		07/05/17 16:06	07/06/17 14:37	5
Boron	1.4		0.050	0.021	mg/L		07/05/17 16:06	07/06/17 14:37	5
Cadmium	<0.00034		0.0025	0.00034	mg/L		07/05/17 16:06	07/06/17 14:37	5
Calcium	29		0.25	0.13	mg/L		07/05/17 16:06	07/06/17 14:37	5
Chromium	<0.0011		0.0025	0.0011	mg/L		07/05/17 16:06	07/06/17 14:37	5
Cobalt	<0.00040		0.0025	0.00040	mg/L		07/05/17 16:06	07/06/17 14:37	5
Lead	<0.00035		0.0013	0.00035	mg/L		07/05/17 16:06	07/06/17 14:37	5
Lithium	<0.0032		0.0050	0.0032	mg/L		07/05/17 16:06	07/06/17 14:37	5
Molybdenum	<0.00085		0.015	0.00085	mg/L		07/05/17 16:06	07/06/17 14:37	5
Selenium	<0.00024		0.0013	0.00024	mg/L		07/05/17 16:06	07/06/17 14:37	5
Thallium	<0.000085		0.00050	0.000085	mg/L		07/05/17 16:06	07/06/17 14:37	5

Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.000070		0.00020	0.000070	mg/L		07/08/17 13:06	07/10/17 12:10	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	290		5.0	3.4	mg/L			07/02/17 13:14	1

Client Sample Results

Client: Southern Company
Project/Site: CCR - Plant Scherer

TestAmerica Job ID: 400-139893-1
SDG: Ash Pond

Client Sample ID: SGWC-23

Lab Sample ID: 400-139893-13

Date Collected: 06/28/17 10:35

Matrix: Water

Date Received: 06/29/17 08:50

Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	9.6		1.0	0.89	mg/L			07/01/17 23:14	1
Fluoride	<0.082		0.20	0.082	mg/L			07/01/17 23:14	1
Sulfate	120		5.0	3.5	mg/L			07/03/17 20:10	5

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0010		0.0025	0.0010	mg/L		07/05/17 16:06	07/06/17 14:41	5
Arsenic	0.00079	J	0.0013	0.00046	mg/L		07/05/17 16:06	07/06/17 14:41	5
Barium	0.085		0.0025	0.00049	mg/L		07/05/17 16:06	07/06/17 14:41	5
Beryllium	<0.00034		0.0025	0.00034	mg/L		07/05/17 16:06	07/06/17 14:41	5
Boron	0.59		0.050	0.021	mg/L		07/05/17 16:06	07/06/17 14:41	5
Cadmium	<0.00034		0.0025	0.00034	mg/L		07/05/17 16:06	07/06/17 14:41	5
Calcium	27		0.25	0.13	mg/L		07/05/17 16:06	07/06/17 14:41	5
Chromium	0.0025		0.0025	0.0011	mg/L		07/05/17 16:06	07/06/17 14:41	5
Cobalt	<0.00040		0.0025	0.00040	mg/L		07/05/17 16:06	07/06/17 14:41	5
Lead	<0.00035		0.0013	0.00035	mg/L		07/05/17 16:06	07/06/17 14:41	5
Lithium	0.0032	J	0.0050	0.0032	mg/L		07/05/17 16:06	07/06/17 14:41	5
Molybdenum	<0.00085		0.015	0.00085	mg/L		07/05/17 16:06	07/06/17 14:41	5
Selenium	0.00033	J	0.0013	0.00024	mg/L		07/05/17 16:06	07/06/17 14:41	5
Thallium	<0.000085		0.00050	0.000085	mg/L		07/05/17 16:06	07/06/17 14:41	5

Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.000070		0.00020	0.000070	mg/L		07/08/17 13:06	07/10/17 12:11	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	250		5.0	3.4	mg/L			07/02/17 13:14	1

Client Sample Results

Client: Southern Company
Project/Site: CCR - Plant Scherer

TestAmerica Job ID: 400-139893-1
SDG: Ash Pond

Client Sample ID: SGWC-18

Lab Sample ID: 400-139893-14

Date Collected: 06/28/17 10:15

Matrix: Water

Date Received: 06/29/17 08:50

Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	10		1.0	0.89	mg/L			07/01/17 23:37	1
Fluoride	<0.082		0.20	0.082	mg/L			07/01/17 23:37	1
Sulfate	390		10	7.0	mg/L			07/03/17 20:33	10

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0010		0.0025	0.0010	mg/L		07/05/17 16:06	07/06/17 14:46	5
Arsenic	0.0011	J	0.0013	0.00046	mg/L		07/05/17 16:06	07/06/17 14:46	5
Barium	0.012		0.0025	0.00049	mg/L		07/05/17 16:06	07/06/17 14:46	5
Beryllium	<0.00034		0.0025	0.00034	mg/L		07/05/17 16:06	07/06/17 14:46	5
Cadmium	<0.00034		0.0025	0.00034	mg/L		07/05/17 16:06	07/06/17 14:46	5
Calcium	36		0.25	0.13	mg/L		07/05/17 16:06	07/06/17 14:46	5
Chromium	0.0059		0.0025	0.0011	mg/L		07/05/17 16:06	07/06/17 14:46	5
Cobalt	0.085		0.0025	0.00040	mg/L		07/05/17 16:06	07/06/17 14:46	5
Lead	<0.00035		0.0013	0.00035	mg/L		07/05/17 16:06	07/06/17 14:46	5
Lithium	<0.0032		0.0050	0.0032	mg/L		07/05/17 16:06	07/06/17 14:46	5
Molybdenum	<0.00085		0.015	0.00085	mg/L		07/05/17 16:06	07/06/17 14:46	5
Selenium	0.0047		0.0013	0.00024	mg/L		07/05/17 16:06	07/06/17 14:46	5
Thallium	0.00013	J	0.00050	0.000085	mg/L		07/05/17 16:06	07/06/17 14:46	5

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Boron	3.6		0.25	0.11	mg/L		07/05/17 16:06	07/06/17 20:33	25

Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.000070		0.00020	0.000070	mg/L		07/08/17 13:06	07/10/17 12:13	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	540		5.0	3.4	mg/L			07/02/17 13:14	1

Client Sample Results

Client: Southern Company
Project/Site: CCR - Plant Scherer

TestAmerica Job ID: 400-139893-1
SDG: Ash Pond

Client Sample ID: SGWC-20

Lab Sample ID: 400-139893-15

Date Collected: 06/28/17 11:05

Matrix: Water

Date Received: 06/29/17 08:50

Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	12		1.0	0.89	mg/L			07/01/17 23:59	1
Fluoride	0.22		0.20	0.082	mg/L			07/01/17 23:59	1
Sulfate	240		10	7.0	mg/L			07/03/17 20:56	10

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0010		0.0025	0.0010	mg/L		07/05/17 16:06	07/06/17 14:50	5
Arsenic	0.00094	J	0.0013	0.00046	mg/L		07/05/17 16:06	07/06/17 14:50	5
Barium	0.030		0.0025	0.00049	mg/L		07/05/17 16:06	07/06/17 14:50	5
Beryllium	0.00073	J	0.0025	0.00034	mg/L		07/05/17 16:06	07/06/17 14:50	5
Cadmium	<0.00034		0.0025	0.00034	mg/L		07/05/17 16:06	07/06/17 14:50	5
Calcium	15		0.25	0.13	mg/L		07/05/17 16:06	07/06/17 14:50	5
Chromium	<0.0011		0.0025	0.0011	mg/L		07/05/17 16:06	07/06/17 14:50	5
Cobalt	0.19		0.0025	0.00040	mg/L		07/05/17 16:06	07/06/17 14:50	5
Lead	0.00041	J	0.0013	0.00035	mg/L		07/05/17 16:06	07/06/17 14:50	5
Lithium	0.0032	J	0.0050	0.0032	mg/L		07/05/17 16:06	07/06/17 14:50	5
Molybdenum	<0.00085		0.015	0.00085	mg/L		07/05/17 16:06	07/06/17 14:50	5
Selenium	0.00064	J	0.0013	0.00024	mg/L		07/05/17 16:06	07/06/17 14:50	5
Thallium	0.00018	J	0.00050	0.000085	mg/L		07/05/17 16:06	07/06/17 14:50	5

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Boron	2.3		0.25	0.11	mg/L		07/05/17 16:06	07/06/17 20:38	25

Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.000070		0.00020	0.000070	mg/L		07/08/17 13:06	07/10/17 12:15	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	320		5.0	3.4	mg/L			07/02/17 13:14	1

Client Sample Results

Client: Southern Company
Project/Site: CCR - Plant Scherer

TestAmerica Job ID: 400-139893-1
SDG: Ash Pond

Client Sample ID: FD-3(AP)

Lab Sample ID: 400-139893-16

Date Collected: 06/28/17 00:00

Matrix: Water

Date Received: 06/29/17 08:50

Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	8.1		1.0	0.89	mg/L			07/02/17 01:08	1
Fluoride	0.096	J	0.20	0.082	mg/L			07/02/17 01:08	1
Sulfate	82		5.0	3.5	mg/L			07/03/17 21:19	5

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0010		0.0025	0.0010	mg/L		07/05/17 16:06	07/06/17 14:55	5
Arsenic	0.00079	J	0.0013	0.00046	mg/L		07/05/17 16:06	07/06/17 14:55	5
Barium	0.095		0.0025	0.00049	mg/L		07/05/17 16:06	07/06/17 14:55	5
Beryllium	<0.00034		0.0025	0.00034	mg/L		07/05/17 16:06	07/06/17 14:55	5
Boron	1.5		0.050	0.021	mg/L		07/05/17 16:06	07/06/17 14:55	5
Cadmium	<0.00034		0.0025	0.00034	mg/L		07/05/17 16:06	07/06/17 14:55	5
Calcium	29		0.25	0.13	mg/L		07/05/17 16:06	07/06/17 14:55	5
Chromium	<0.0011		0.0025	0.0011	mg/L		07/05/17 16:06	07/06/17 14:55	5
Cobalt	<0.00040		0.0025	0.00040	mg/L		07/05/17 16:06	07/06/17 14:55	5
Lead	<0.00035		0.0013	0.00035	mg/L		07/05/17 16:06	07/06/17 14:55	5
Lithium	<0.0032		0.0050	0.0032	mg/L		07/05/17 16:06	07/06/17 14:55	5
Molybdenum	<0.00085		0.015	0.00085	mg/L		07/05/17 16:06	07/06/17 14:55	5
Selenium	<0.00024		0.0013	0.00024	mg/L		07/05/17 16:06	07/06/17 14:55	5
Thallium	<0.000085		0.00050	0.000085	mg/L		07/05/17 16:06	07/06/17 14:55	5

Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.000070		0.00020	0.000070	mg/L		07/08/17 13:06	07/10/17 12:26	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	260		5.0	3.4	mg/L			07/01/17 13:26	1

Client Sample Results

Client: Southern Company
Project/Site: CCR - Plant Scherer

TestAmerica Job ID: 400-139893-1
SDG: Ash Pond

Client Sample ID: FB-3(AP)

Date Collected: 06/28/17 08:40

Date Received: 06/29/17 08:50

Lab Sample ID: 400-139893-17

Matrix: Water

Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<0.89		1.0	0.89	mg/L			07/02/17 01:31	1
Fluoride	<0.082		0.20	0.082	mg/L			07/02/17 01:31	1
Sulfate	<0.70		1.0	0.70	mg/L			07/02/17 01:31	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0010		0.0025	0.0010	mg/L		07/05/17 16:10	07/06/17 18:14	5
Arsenic	<0.00046		0.0013	0.00046	mg/L		07/05/17 16:10	07/06/17 18:14	5
Barium	<0.00049		0.0025	0.00049	mg/L		07/05/17 16:10	07/06/17 18:14	5
Beryllium	<0.00034		0.0025	0.00034	mg/L		07/05/17 16:10	07/06/17 18:14	5
Boron	<0.021		0.050	0.021	mg/L		07/05/17 16:10	07/06/17 18:14	5
Cadmium	<0.00034		0.0025	0.00034	mg/L		07/05/17 16:10	07/06/17 18:14	5
Calcium	<0.13		0.25	0.13	mg/L		07/05/17 16:10	07/06/17 18:14	5
Chromium	<0.0011		0.0025	0.0011	mg/L		07/05/17 16:10	07/06/17 18:14	5
Cobalt	<0.00040		0.0025	0.00040	mg/L		07/05/17 16:10	07/06/17 18:14	5
Lead	<0.00035		0.0013	0.00035	mg/L		07/05/17 16:10	07/06/17 18:14	5
Lithium	<0.0032		0.0050	0.0032	mg/L		07/05/17 16:10	07/06/17 18:14	5
Molybdenum	<0.00085		0.015	0.00085	mg/L		07/05/17 16:10	07/06/17 18:14	5
Selenium	0.00048	J	0.0013	0.00024	mg/L		07/05/17 16:10	07/06/17 18:14	5
Thallium	<0.000085		0.00050	0.000085	mg/L		07/05/17 16:10	07/06/17 18:14	5

Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.000070		0.00020	0.000070	mg/L		07/08/17 13:06	07/10/17 12:27	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	<3.4		5.0	3.4	mg/L			07/02/17 13:14	1

Client Sample Results

Client: Southern Company
Project/Site: CCR - Plant Scherer

TestAmerica Job ID: 400-139893-1
SDG: Ash Pond

Client Sample ID: EB-3(AP)

Date Collected: 06/28/17 11:00

Date Received: 06/29/17 08:50

Lab Sample ID: 400-139893-18

Matrix: Water

Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<0.89		1.0	0.89	mg/L			07/02/17 01:53	1
Fluoride	<0.082		0.20	0.082	mg/L			07/02/17 01:53	1
Sulfate	<0.70		1.0	0.70	mg/L			07/02/17 01:53	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0010		0.0025	0.0010	mg/L		07/05/17 16:10	07/06/17 18:18	5
Arsenic	<0.00046		0.0013	0.00046	mg/L		07/05/17 16:10	07/06/17 18:18	5
Barium	<0.00049		0.0025	0.00049	mg/L		07/05/17 16:10	07/06/17 18:18	5
Beryllium	<0.00034		0.0025	0.00034	mg/L		07/05/17 16:10	07/06/17 18:18	5
Boron	<0.021		0.050	0.021	mg/L		07/05/17 16:10	07/06/17 18:18	5
Cadmium	<0.00034		0.0025	0.00034	mg/L		07/05/17 16:10	07/06/17 18:18	5
Calcium	<0.13		0.25	0.13	mg/L		07/05/17 16:10	07/06/17 18:18	5
Chromium	<0.0011		0.0025	0.0011	mg/L		07/05/17 16:10	07/06/17 18:18	5
Cobalt	<0.00040		0.0025	0.00040	mg/L		07/05/17 16:10	07/06/17 18:18	5
Lead	0.00044	J	0.0013	0.00035	mg/L		07/05/17 16:10	07/06/17 18:18	5
Lithium	<0.0032		0.0050	0.0032	mg/L		07/05/17 16:10	07/06/17 18:18	5
Molybdenum	<0.00085		0.015	0.00085	mg/L		07/05/17 16:10	07/06/17 18:18	5
Selenium	<0.00024		0.0013	0.00024	mg/L		07/05/17 16:10	07/06/17 18:18	5
Thallium	<0.000085		0.00050	0.000085	mg/L		07/05/17 16:10	07/06/17 18:18	5

Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.000070		0.00020	0.000070	mg/L		07/08/17 13:06	07/10/17 12:29	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	<3.4		5.0	3.4	mg/L			07/02/17 13:14	1

Client Sample Results

Client: Southern Company
Project/Site: CCR - Plant Scherer

TestAmerica Job ID: 400-139893-1
SDG: Ash Pond

Client Sample ID: SGWC-7

Lab Sample ID: 400-139893-19

Date Collected: 06/27/17 12:45

Matrix: Water

Date Received: 06/29/17 08:50

Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	5.7		1.0	0.89	mg/L			07/02/17 02:16	1
Fluoride	0.23		0.20	0.082	mg/L			07/02/17 02:16	1
Sulfate	19		1.0	0.70	mg/L			07/02/17 02:16	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0010		0.0025	0.0010	mg/L		07/05/17 16:10	07/06/17 18:23	5
Arsenic	<0.00046		0.0013	0.00046	mg/L		07/05/17 16:10	07/06/17 18:23	5
Barium	0.36		0.0025	0.00049	mg/L		07/05/17 16:10	07/06/17 18:23	5
Beryllium	<0.00034		0.0025	0.00034	mg/L		07/05/17 16:10	07/06/17 18:23	5
Boron	0.028	J	0.050	0.021	mg/L		07/05/17 16:10	07/06/17 18:23	5
Cadmium	<0.00034		0.0025	0.00034	mg/L		07/05/17 16:10	07/06/17 18:23	5
Calcium	23		0.25	0.13	mg/L		07/05/17 16:10	07/06/17 18:23	5
Chromium	<0.0011		0.0025	0.0011	mg/L		07/05/17 16:10	07/06/17 18:23	5
Cobalt	0.021		0.0025	0.00040	mg/L		07/05/17 16:10	07/06/17 18:23	5
Lead	<0.00035		0.0013	0.00035	mg/L		07/05/17 16:10	07/06/17 18:23	5
Lithium	0.0033	J	0.0050	0.0032	mg/L		07/05/17 16:10	07/06/17 18:23	5
Molybdenum	0.0021	J	0.015	0.00085	mg/L		07/05/17 16:10	07/06/17 18:23	5
Selenium	<0.00024		0.0013	0.00024	mg/L		07/05/17 16:10	07/06/17 18:23	5
Thallium	<0.000085		0.00050	0.000085	mg/L		07/05/17 16:10	07/06/17 18:23	5

Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.000070		0.00020	0.000070	mg/L		07/08/17 13:06	07/10/17 12:31	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	180		5.0	3.4	mg/L			07/01/17 13:26	1

Client Sample Results

Client: Southern Company
Project/Site: CCR - Plant Scherer

TestAmerica Job ID: 400-139893-1
SDG: Ash Pond

Client Sample ID: SGWC-6

Lab Sample ID: 400-139893-20

Date Collected: 06/27/17 10:25

Matrix: Water

Date Received: 06/29/17 08:50

Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	1.6		1.0	0.89	mg/L			07/02/17 02:39	1
Fluoride	0.085	J	0.20	0.082	mg/L			07/02/17 02:39	1
Sulfate	<0.70		1.0	0.70	mg/L			07/02/17 02:39	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0010		0.0025	0.0010	mg/L		07/05/17 16:10	07/06/17 18:45	5
Arsenic	<0.00046		0.0013	0.00046	mg/L		07/05/17 16:10	07/06/17 18:45	5
Barium	0.058		0.0025	0.00049	mg/L		07/05/17 16:10	07/06/17 18:45	5
Beryllium	<0.00034		0.0025	0.00034	mg/L		07/05/17 16:10	07/06/17 18:45	5
Boron	<0.021		0.050	0.021	mg/L		07/05/17 16:10	07/06/17 18:45	5
Cadmium	<0.00034		0.0025	0.00034	mg/L		07/05/17 16:10	07/06/17 18:45	5
Calcium	6.2		0.25	0.13	mg/L		07/05/17 16:10	07/06/17 18:45	5
Chromium	<0.0011		0.0025	0.0011	mg/L		07/05/17 16:10	07/06/17 18:45	5
Cobalt	0.0045		0.0025	0.00040	mg/L		07/05/17 16:10	07/06/17 18:45	5
Lead	<0.00035		0.0013	0.00035	mg/L		07/05/17 16:10	07/06/17 18:45	5
Lithium	<0.0032		0.0050	0.0032	mg/L		07/05/17 16:10	07/06/17 18:45	5
Molybdenum	0.00099	J	0.015	0.00085	mg/L		07/05/17 16:10	07/06/17 18:45	5
Selenium	0.00057	J	0.0013	0.00024	mg/L		07/05/17 16:10	07/06/17 18:45	5
Thallium	<0.000085		0.00050	0.000085	mg/L		07/05/17 16:10	07/06/17 18:45	5

Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.000070		0.00020	0.000070	mg/L		07/08/17 13:06	07/10/17 12:32	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	40		5.0	3.4	mg/L			07/01/17 13:26	1

Client Sample Results

Client: Southern Company
Project/Site: CCR - Plant Scherer

TestAmerica Job ID: 400-139893-1
SDG: Ash Pond

Client Sample ID: SGWA-25

Date Collected: 06/27/17 09:20

Date Received: 06/29/17 08:50

Lab Sample ID: 400-139893-21

Matrix: Water

Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	2.2		1.0	0.89	mg/L			07/02/17 03:02	1
Fluoride	<0.082		0.20	0.082	mg/L			07/02/17 03:02	1
Sulfate	<0.70		1.0	0.70	mg/L			07/02/17 03:02	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0010		0.0025	0.0010	mg/L		07/05/17 16:10	07/06/17 19:17	5
Arsenic	0.00095	J	0.0013	0.00046	mg/L		07/05/17 16:10	07/06/17 19:17	5
Barium	0.024		0.0025	0.00049	mg/L		07/05/17 16:10	07/06/17 19:17	5
Beryllium	<0.00034		0.0025	0.00034	mg/L		07/05/17 16:10	07/06/17 19:17	5
Boron	<0.021		0.050	0.021	mg/L		07/05/17 16:10	07/06/17 19:17	5
Cadmium	<0.00034		0.0025	0.00034	mg/L		07/05/17 16:10	07/06/17 19:17	5
Calcium	9.5		0.25	0.13	mg/L		07/05/17 16:10	07/06/17 19:17	5
Chromium	<0.0011		0.0025	0.0011	mg/L		07/05/17 16:10	07/06/17 19:17	5
Cobalt	0.0088		0.0025	0.00040	mg/L		07/05/17 16:10	07/06/17 19:17	5
Lead	<0.00035		0.0013	0.00035	mg/L		07/05/17 16:10	07/06/17 19:17	5
Lithium	<0.0032		0.0050	0.0032	mg/L		07/05/17 16:10	07/06/17 19:17	5
Molybdenum	<0.00085		0.015	0.00085	mg/L		07/05/17 16:10	07/06/17 19:17	5
Selenium	<0.00024		0.0013	0.00024	mg/L		07/05/17 16:10	07/06/17 19:17	5
Thallium	<0.000085		0.00050	0.000085	mg/L		07/05/17 16:10	07/06/17 19:17	5

Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.000070		0.00020	0.000070	mg/L		07/09/17 09:49	07/10/17 12:38	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	18		5.0	3.4	mg/L			07/01/17 13:26	1

Client Sample Results

Client: Southern Company
Project/Site: CCR - Plant Scherer

TestAmerica Job ID: 400-139893-1
SDG: Ash Pond

Client Sample ID: SGWC-17

Date Collected: 06/27/17 14:40

Date Received: 06/29/17 08:50

Lab Sample ID: 400-139893-22

Matrix: Water

Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	8.3		1.0	0.89	mg/L			07/02/17 03:25	1
Fluoride	<0.082		0.20	0.082	mg/L			07/02/17 03:25	1
Sulfate	160		5.0	3.5	mg/L			07/03/17 21:42	5

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0010		0.0025	0.0010	mg/L		07/05/17 16:10	07/06/17 19:21	5
Arsenic	0.00075	J	0.0013	0.00046	mg/L		07/05/17 16:10	07/06/17 19:21	5
Barium	0.019		0.0025	0.00049	mg/L		07/05/17 16:10	07/06/17 19:21	5
Beryllium	<0.00034		0.0025	0.00034	mg/L		07/05/17 16:10	07/06/17 19:21	5
Boron	0.33		0.050	0.021	mg/L		07/05/17 16:10	07/06/17 19:21	5
Cadmium	<0.00034		0.0025	0.00034	mg/L		07/05/17 16:10	07/06/17 19:21	5
Calcium	42		0.25	0.13	mg/L		07/05/17 16:10	07/06/17 19:21	5
Chromium	0.0029		0.0025	0.0011	mg/L		07/05/17 16:10	07/06/17 19:21	5
Cobalt	0.00041	J	0.0025	0.00040	mg/L		07/05/17 16:10	07/06/17 19:21	5
Lead	<0.00035		0.0013	0.00035	mg/L		07/05/17 16:10	07/06/17 19:21	5
Lithium	<0.0032		0.0050	0.0032	mg/L		07/05/17 16:10	07/06/17 19:21	5
Molybdenum	<0.00085		0.015	0.00085	mg/L		07/05/17 16:10	07/06/17 19:21	5
Selenium	0.00024	J	0.0013	0.00024	mg/L		07/05/17 16:10	07/06/17 19:21	5
Thallium	<0.000085		0.00050	0.000085	mg/L		07/05/17 16:10	07/06/17 19:21	5

Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.000070		0.00020	0.000070	mg/L		07/09/17 09:49	07/10/17 12:40	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	350		5.0	3.4	mg/L			07/01/17 13:26	1

Client Sample Results

Client: Southern Company
Project/Site: CCR - Plant Scherer

TestAmerica Job ID: 400-139893-1
SDG: Ash Pond

Client Sample ID: SGWC-11

Lab Sample ID: 400-139893-23

Date Collected: 06/27/17 09:20

Matrix: Water

Date Received: 06/29/17 08:50

Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	7.8		1.0	0.89	mg/L			07/02/17 04:10	1
Fluoride	<0.082		0.20	0.082	mg/L			07/02/17 04:10	1
Sulfate	1.2		1.0	0.70	mg/L			07/02/17 04:10	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0010		0.0025	0.0010	mg/L		07/05/17 16:10	07/06/17 19:26	5
Arsenic	0.0011	J	0.0013	0.00046	mg/L		07/05/17 16:10	07/06/17 19:26	5
Barium	0.042		0.0025	0.00049	mg/L		07/05/17 16:10	07/06/17 19:26	5
Beryllium	<0.00034		0.0025	0.00034	mg/L		07/05/17 16:10	07/06/17 19:26	5
Boron	0.29		0.050	0.021	mg/L		07/05/17 16:10	07/06/17 19:26	5
Cadmium	<0.00034		0.0025	0.00034	mg/L		07/05/17 16:10	07/06/17 19:26	5
Calcium	1.9		0.25	0.13	mg/L		07/05/17 16:10	07/06/17 19:26	5
Chromium	<0.0011		0.0025	0.0011	mg/L		07/05/17 16:10	07/06/17 19:26	5
Cobalt	0.029		0.0025	0.00040	mg/L		07/05/17 16:10	07/06/17 19:26	5
Lead	<0.00035		0.0013	0.00035	mg/L		07/05/17 16:10	07/06/17 19:26	5
Lithium	<0.0032		0.0050	0.0032	mg/L		07/05/17 16:10	07/06/17 19:26	5
Molybdenum	<0.00085		0.015	0.00085	mg/L		07/05/17 16:10	07/06/17 19:26	5
Selenium	<0.00024		0.0013	0.00024	mg/L		07/05/17 16:10	07/06/17 19:26	5
Thallium	<0.000085		0.00050	0.000085	mg/L		07/05/17 16:10	07/06/17 19:26	5

Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.000070		0.00020	0.000070	mg/L		07/09/17 09:49	07/10/17 12:41	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	8.0		5.0	3.4	mg/L			07/01/17 13:26	1

Client Sample Results

Client: Southern Company
Project/Site: CCR - Plant Scherer

TestAmerica Job ID: 400-139893-1
SDG: Ash Pond

Client Sample ID: SGWC-8

Lab Sample ID: 400-139893-24

Date Collected: 06/27/17 09:30

Matrix: Water

Date Received: 06/29/17 08:50

Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	12		1.0	0.89	mg/L			07/02/17 04:33	1
Fluoride	0.47		0.20	0.082	mg/L			07/02/17 04:33	1
Sulfate	77		5.0	3.5	mg/L			07/03/17 23:13	5

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0010		0.0025	0.0010	mg/L		07/05/17 16:10	07/06/17 19:30	5
Arsenic	0.00076	J	0.0013	0.00046	mg/L		07/05/17 16:10	07/06/17 19:30	5
Barium	0.18		0.0025	0.00049	mg/L		07/05/17 16:10	07/06/17 19:30	5
Beryllium	<0.00034		0.0025	0.00034	mg/L		07/05/17 16:10	07/06/17 19:30	5
Boron	0.067		0.050	0.021	mg/L		07/05/17 16:10	07/06/17 19:30	5
Cadmium	<0.00034		0.0025	0.00034	mg/L		07/05/17 16:10	07/06/17 19:30	5
Calcium	50		0.25	0.13	mg/L		07/05/17 16:10	07/06/17 19:30	5
Chromium	<0.0011		0.0025	0.0011	mg/L		07/05/17 16:10	07/06/17 19:30	5
Cobalt	<0.00040		0.0025	0.00040	mg/L		07/05/17 16:10	07/06/17 19:30	5
Lead	<0.00035		0.0013	0.00035	mg/L		07/05/17 16:10	07/06/17 19:30	5
Lithium	<0.0032		0.0050	0.0032	mg/L		07/05/17 16:10	07/06/17 19:30	5
Molybdenum	<0.00085		0.015	0.00085	mg/L		07/05/17 16:10	07/06/17 19:30	5
Selenium	<0.00024		0.0013	0.00024	mg/L		07/05/17 16:10	07/06/17 19:30	5
Thallium	<0.000085		0.00050	0.000085	mg/L		07/05/17 16:10	07/06/17 19:30	5

Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.000070		0.00020	0.000070	mg/L		07/09/17 09:49	07/10/17 12:51	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	380		5.0	3.4	mg/L			07/01/17 13:26	1

Client Sample Results

Client: Southern Company
Project/Site: CCR - Plant Scherer

TestAmerica Job ID: 400-139893-1
SDG: Ash Pond

Client Sample ID: SGWC-12

Lab Sample ID: 400-139893-25

Date Collected: 06/27/17 10:50

Matrix: Water

Date Received: 06/29/17 08:50

Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	9.3		1.0	0.89	mg/L			07/02/17 05:42	1
Fluoride	0.10	J	0.20	0.082	mg/L			07/02/17 05:42	1
Sulfate	33		1.0	0.70	mg/L			07/02/17 05:42	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0010		0.0025	0.0010	mg/L		07/05/17 16:10	07/06/17 19:35	5
Arsenic	0.0011	J	0.0013	0.00046	mg/L		07/05/17 16:10	07/06/17 19:35	5
Barium	0.042		0.0025	0.00049	mg/L		07/05/17 16:10	07/06/17 19:35	5
Beryllium	<0.00034		0.0025	0.00034	mg/L		07/05/17 16:10	07/06/17 19:35	5
Boron	<0.021		0.050	0.021	mg/L		07/05/17 16:10	07/06/17 19:35	5
Cadmium	<0.00034		0.0025	0.00034	mg/L		07/05/17 16:10	07/06/17 19:35	5
Calcium	22		0.25	0.13	mg/L		07/05/17 16:10	07/06/17 19:35	5
Chromium	<0.0011		0.0025	0.0011	mg/L		07/05/17 16:10	07/06/17 19:35	5
Cobalt	0.0042		0.0025	0.00040	mg/L		07/05/17 16:10	07/06/17 19:35	5
Lead	<0.00035		0.0013	0.00035	mg/L		07/05/17 16:10	07/06/17 19:35	5
Lithium	<0.0032		0.0050	0.0032	mg/L		07/05/17 16:10	07/06/17 19:35	5
Molybdenum	<0.00085		0.015	0.00085	mg/L		07/05/17 16:10	07/06/17 19:35	5
Selenium	<0.00024		0.0013	0.00024	mg/L		07/05/17 16:10	07/06/17 19:35	5
Thallium	<0.000085		0.00050	0.000085	mg/L		07/05/17 16:10	07/06/17 19:35	5

Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.000070		0.00020	0.000070	mg/L		07/09/17 09:49	07/10/17 12:53	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	200		5.0	3.4	mg/L			07/01/17 13:26	1

Client Sample Results

Client: Southern Company
Project/Site: CCR - Plant Scherer

TestAmerica Job ID: 400-139893-1
SDG: Ash Pond

Client Sample ID: SGWC-9

Date Collected: 06/27/17 10:50

Date Received: 06/29/17 08:50

Lab Sample ID: 400-139893-26

Matrix: Water

Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	9.9		1.0	0.89	mg/L			07/02/17 06:04	1
Fluoride	<0.082		0.20	0.082	mg/L			07/02/17 06:04	1
Sulfate	340		10	7.0	mg/L			07/03/17 23:36	10

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0010		0.0025	0.0010	mg/L		07/05/17 16:10	07/06/17 19:39	5
Arsenic	0.0011	J	0.0013	0.00046	mg/L		07/05/17 16:10	07/06/17 19:39	5
Barium	0.067		0.0025	0.00049	mg/L		07/05/17 16:10	07/06/17 19:39	5
Beryllium	<0.00034		0.0025	0.00034	mg/L		07/05/17 16:10	07/06/17 19:39	5
Boron	1.8		0.050	0.021	mg/L		07/05/17 16:10	07/06/17 19:39	5
Cadmium	<0.00034		0.0025	0.00034	mg/L		07/05/17 16:10	07/06/17 19:39	5
Calcium	53		0.25	0.13	mg/L		07/05/17 16:10	07/06/17 19:39	5
Chromium	<0.0011		0.0025	0.0011	mg/L		07/05/17 16:10	07/06/17 19:39	5
Cobalt	0.013		0.0025	0.00040	mg/L		07/05/17 16:10	07/06/17 19:39	5
Lead	<0.00035		0.0013	0.00035	mg/L		07/05/17 16:10	07/06/17 19:39	5
Lithium	<0.0032		0.0050	0.0032	mg/L		07/05/17 16:10	07/06/17 19:39	5
Molybdenum	<0.00085		0.015	0.00085	mg/L		07/05/17 16:10	07/06/17 19:39	5
Selenium	<0.00024		0.0013	0.00024	mg/L		07/05/17 16:10	07/06/17 19:39	5
Thallium	<0.000085		0.00050	0.000085	mg/L		07/05/17 16:10	07/06/17 19:39	5

Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.000070		0.00020	0.000070	mg/L		07/09/17 09:49	07/10/17 12:54	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	550		5.0	3.4	mg/L			07/01/17 13:26	1

Client Sample Results

Client: Southern Company
Project/Site: CCR - Plant Scherer

TestAmerica Job ID: 400-139893-1
SDG: Ash Pond

Client Sample ID: SGWC-13

Lab Sample ID: 400-139893-27

Date Collected: 06/27/17 11:55

Matrix: Water

Date Received: 06/29/17 08:50

Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	5.9		1.0	0.89	mg/L			07/02/17 06:27	1
Fluoride	<0.082		0.20	0.082	mg/L			07/02/17 06:27	1
Sulfate	78		5.0	3.5	mg/L			07/03/17 23:59	5

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0010		0.0025	0.0010	mg/L		07/05/17 16:10	07/06/17 19:44	5
Arsenic	0.00088	J	0.0013	0.00046	mg/L		07/05/17 16:10	07/06/17 19:44	5
Barium	0.031		0.0025	0.00049	mg/L		07/05/17 16:10	07/06/17 19:44	5
Beryllium	<0.00034		0.0025	0.00034	mg/L		07/05/17 16:10	07/06/17 19:44	5
Boron	0.51		0.050	0.021	mg/L		07/05/17 16:10	07/06/17 19:44	5
Cadmium	<0.00034		0.0025	0.00034	mg/L		07/05/17 16:10	07/06/17 19:44	5
Calcium	15		0.25	0.13	mg/L		07/05/17 16:10	07/06/17 19:44	5
Chromium	<0.0011		0.0025	0.0011	mg/L		07/05/17 16:10	07/06/17 19:44	5
Cobalt	0.0068		0.0025	0.00040	mg/L		07/05/17 16:10	07/06/17 19:44	5
Lead	<0.00035		0.0013	0.00035	mg/L		07/05/17 16:10	07/06/17 19:44	5
Lithium	<0.0032		0.0050	0.0032	mg/L		07/05/17 16:10	07/06/17 19:44	5
Molybdenum	<0.00085		0.015	0.00085	mg/L		07/05/17 16:10	07/06/17 19:44	5
Selenium	<0.00024		0.0013	0.00024	mg/L		07/05/17 16:10	07/06/17 19:44	5
Thallium	<0.000085		0.00050	0.000085	mg/L		07/05/17 16:10	07/06/17 19:44	5

Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.000070		0.00020	0.000070	mg/L		07/09/17 09:49	07/10/17 12:56	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	170		5.0	3.4	mg/L			07/01/17 13:26	1

Client Sample Results

Client: Southern Company
Project/Site: CCR - Plant Scherer

TestAmerica Job ID: 400-139893-1
SDG: Ash Pond

Client Sample ID: FD-2
Date Collected: 06/27/17 00:00
Date Received: 06/29/17 08:50

Lab Sample ID: 400-139893-28
Matrix: Water

Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	7.8		1.0	0.89	mg/L			07/02/17 06:50	1
Fluoride	<0.082		0.20	0.082	mg/L			07/02/17 06:50	1
Sulfate	1.1		1.0	0.70	mg/L			07/02/17 06:50	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0010		0.0025	0.0010	mg/L		07/05/17 16:10	07/06/17 19:48	5
Arsenic	0.0012	J	0.0013	0.00046	mg/L		07/05/17 16:10	07/06/17 19:48	5
Barium	0.041		0.0025	0.00049	mg/L		07/05/17 16:10	07/06/17 19:48	5
Beryllium	<0.00034		0.0025	0.00034	mg/L		07/05/17 16:10	07/06/17 19:48	5
Boron	0.30		0.050	0.021	mg/L		07/05/17 16:10	07/06/17 19:48	5
Cadmium	<0.00034		0.0025	0.00034	mg/L		07/05/17 16:10	07/06/17 19:48	5
Calcium	1.9		0.25	0.13	mg/L		07/05/17 16:10	07/06/17 19:48	5
Chromium	<0.0011		0.0025	0.0011	mg/L		07/05/17 16:10	07/06/17 19:48	5
Cobalt	0.030		0.0025	0.00040	mg/L		07/05/17 16:10	07/06/17 19:48	5
Lead	<0.00035		0.0013	0.00035	mg/L		07/05/17 16:10	07/06/17 19:48	5
Lithium	<0.0032		0.0050	0.0032	mg/L		07/05/17 16:10	07/06/17 19:48	5
Molybdenum	<0.00085		0.015	0.00085	mg/L		07/05/17 16:10	07/06/17 19:48	5
Selenium	<0.00024		0.0013	0.00024	mg/L		07/05/17 16:10	07/06/17 19:48	5
Thallium	<0.000085		0.00050	0.000085	mg/L		07/05/17 16:10	07/06/17 19:48	5

Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.000070		0.00020	0.000070	mg/L		07/09/17 09:49	07/10/17 12:58	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	40		5.0	3.4	mg/L			07/01/17 13:26	1

Client Sample Results

Client: Southern Company
Project/Site: CCR - Plant Scherer

TestAmerica Job ID: 400-139893-1
SDG: Ash Pond

Client Sample ID: FB-2(AP)

Lab Sample ID: 400-139893-29

Date Collected: 06/27/17 08:50

Matrix: Water

Date Received: 06/29/17 08:50

Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<0.89		1.0	0.89	mg/L			07/02/17 07:13	1
Fluoride	<0.082		0.20	0.082	mg/L			07/02/17 07:13	1
Sulfate	<0.70		1.0	0.70	mg/L			07/02/17 07:13	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0010		0.0025	0.0010	mg/L		07/05/17 16:10	07/06/17 19:08	5
Arsenic	0.00061	J	0.0013	0.00046	mg/L		07/05/17 16:10	07/06/17 19:08	5
Barium	<0.00049		0.0025	0.00049	mg/L		07/05/17 16:10	07/06/17 19:08	5
Beryllium	<0.00034		0.0025	0.00034	mg/L		07/05/17 16:10	07/06/17 19:08	5
Boron	<0.021		0.050	0.021	mg/L		07/05/17 16:10	07/06/17 19:08	5
Cadmium	<0.00034		0.0025	0.00034	mg/L		07/05/17 16:10	07/06/17 19:08	5
Calcium	<0.13		0.25	0.13	mg/L		07/05/17 16:10	07/06/17 19:08	5
Chromium	<0.0011		0.0025	0.0011	mg/L		07/05/17 16:10	07/06/17 19:08	5
Cobalt	<0.00040		0.0025	0.00040	mg/L		07/05/17 16:10	07/06/17 19:08	5
Lead	<0.00035		0.0013	0.00035	mg/L		07/05/17 16:10	07/06/17 19:08	5
Lithium	<0.0032		0.0050	0.0032	mg/L		07/05/17 16:10	07/06/17 19:08	5
Molybdenum	<0.00085		0.015	0.00085	mg/L		07/05/17 16:10	07/06/17 19:08	5
Selenium	<0.00024		0.0013	0.00024	mg/L		07/05/17 16:10	07/06/17 19:08	5
Thallium	<0.000085		0.00050	0.000085	mg/L		07/05/17 16:10	07/06/17 19:08	5

Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.000070		0.00020	0.000070	mg/L		07/09/17 09:49	07/10/17 12:59	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	<3.4		5.0	3.4	mg/L			07/01/17 13:26	1

Client Sample Results

Client: Southern Company
Project/Site: CCR - Plant Scherer

TestAmerica Job ID: 400-139893-1
SDG: Ash Pond

Client Sample ID: EB-2(AP)

Date Collected: 06/27/17 15:20

Date Received: 06/29/17 08:50

Lab Sample ID: 400-139893-30

Matrix: Water

Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<0.89		1.0	0.89	mg/L			07/02/17 07:36	1
Fluoride	<0.082		0.20	0.082	mg/L			07/02/17 07:36	1
Sulfate	<0.70		1.0	0.70	mg/L			07/02/17 07:36	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0010		0.0025	0.0010	mg/L		07/05/17 16:10	07/06/17 19:12	5
Arsenic	0.00059	J	0.0013	0.00046	mg/L		07/05/17 16:10	07/06/17 19:12	5
Barium	<0.00049		0.0025	0.00049	mg/L		07/05/17 16:10	07/06/17 19:12	5
Beryllium	<0.00034		0.0025	0.00034	mg/L		07/05/17 16:10	07/06/17 19:12	5
Boron	<0.021		0.050	0.021	mg/L		07/05/17 16:10	07/06/17 19:12	5
Cadmium	<0.00034		0.0025	0.00034	mg/L		07/05/17 16:10	07/06/17 19:12	5
Calcium	<0.13		0.25	0.13	mg/L		07/05/17 16:10	07/06/17 19:12	5
Chromium	<0.0011		0.0025	0.0011	mg/L		07/05/17 16:10	07/06/17 19:12	5
Cobalt	<0.00040		0.0025	0.00040	mg/L		07/05/17 16:10	07/06/17 19:12	5
Lead	<0.00035		0.0013	0.00035	mg/L		07/05/17 16:10	07/06/17 19:12	5
Lithium	<0.0032		0.0050	0.0032	mg/L		07/05/17 16:10	07/06/17 19:12	5
Molybdenum	<0.00085		0.015	0.00085	mg/L		07/05/17 16:10	07/06/17 19:12	5
Selenium	<0.00024		0.0013	0.00024	mg/L		07/05/17 16:10	07/06/17 19:12	5
Thallium	<0.000085		0.00050	0.000085	mg/L		07/05/17 16:10	07/06/17 19:12	5

Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.000070		0.00020	0.000070	mg/L		07/09/17 09:49	07/10/17 13:01	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	<3.4		5.0	3.4	mg/L			07/01/17 13:26	1

Client Sample Results

Client: Southern Company
Project/Site: CCR - Plant Scherer

TestAmerica Job ID: 400-139893-1
SDG: Ash Pond

Client Sample ID: SGWC-10

Lab Sample ID: 400-139893-31

Date Collected: 06/27/17 13:45

Matrix: Water

Date Received: 06/29/17 08:50

Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	9.1		1.0	0.89	mg/L			07/02/17 07:59	1
Fluoride	<0.082		0.20	0.082	mg/L			07/02/17 07:59	1
Sulfate	8.2		1.0	0.70	mg/L			07/02/17 07:59	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0010		0.0025	0.0010	mg/L		07/05/17 16:10	07/06/17 20:11	5
Arsenic	0.00074	J	0.0013	0.00046	mg/L		07/05/17 16:10	07/06/17 20:11	5
Barium	0.034		0.0025	0.00049	mg/L		07/05/17 16:10	07/06/17 20:11	5
Beryllium	<0.00034		0.0025	0.00034	mg/L		07/05/17 16:10	07/06/17 20:11	5
Boron	<0.021		0.050	0.021	mg/L		07/05/17 16:10	07/06/17 20:11	5
Cadmium	<0.00034		0.0025	0.00034	mg/L		07/05/17 16:10	07/06/17 20:11	5
Calcium	3.1		0.25	0.13	mg/L		07/05/17 16:10	07/06/17 20:11	5
Chromium	<0.0011		0.0025	0.0011	mg/L		07/05/17 16:10	07/06/17 20:11	5
Cobalt	0.014		0.0025	0.00040	mg/L		07/05/17 16:10	07/06/17 20:11	5
Lead	<0.00035		0.0013	0.00035	mg/L		07/05/17 16:10	07/06/17 20:11	5
Lithium	<0.0032		0.0050	0.0032	mg/L		07/05/17 16:10	07/06/17 20:11	5
Molybdenum	<0.00085		0.015	0.00085	mg/L		07/05/17 16:10	07/06/17 20:11	5
Thallium	<0.000085		0.00050	0.000085	mg/L		07/05/17 16:10	07/06/17 20:11	5

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Selenium	<0.00024		0.0013	0.00024	mg/L		07/05/17 16:10	07/10/17 15:28	5

Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.000070		0.00020	0.000070	mg/L		07/09/17 09:49	07/10/17 13:03	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	50		5.0	3.4	mg/L			07/01/17 13:26	1

Client Sample Results

Client: Southern Company
Project/Site: CCR - Plant Scherer

TestAmerica Job ID: 400-139893-1
SDG: Ash Pond

Client Sample ID: SGWC-14

Lab Sample ID: 400-139893-32

Date Collected: 06/27/17 13:55

Matrix: Water

Date Received: 06/29/17 08:50

Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	11		1.0	0.89	mg/L			07/04/17 00:44	1
Fluoride	<0.082		0.20	0.082	mg/L			07/04/17 00:44	1
Sulfate	200		5.0	3.5	mg/L			07/05/17 16:48	5

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0010		0.0025	0.0010	mg/L		07/05/17 16:10	07/06/17 20:15	5
Arsenic	0.00058	J	0.0013	0.00046	mg/L		07/05/17 16:10	07/06/17 20:15	5
Barium	0.060		0.0025	0.00049	mg/L		07/05/17 16:10	07/06/17 20:15	5
Beryllium	<0.00034		0.0025	0.00034	mg/L		07/05/17 16:10	07/06/17 20:15	5
Boron	1.6		0.050	0.021	mg/L		07/05/17 16:10	07/06/17 20:15	5
Cadmium	<0.00034		0.0025	0.00034	mg/L		07/05/17 16:10	07/06/17 20:15	5
Calcium	38		0.25	0.13	mg/L		07/05/17 16:10	07/06/17 20:15	5
Chromium	<0.0011		0.0025	0.0011	mg/L		07/05/17 16:10	07/06/17 20:15	5
Cobalt	0.013		0.0025	0.00040	mg/L		07/05/17 16:10	07/06/17 20:15	5
Lead	<0.00035		0.0013	0.00035	mg/L		07/05/17 16:10	07/06/17 20:15	5
Lithium	<0.0032		0.0050	0.0032	mg/L		07/05/17 16:10	07/06/17 20:15	5
Molybdenum	<0.00085		0.015	0.00085	mg/L		07/05/17 16:10	07/06/17 20:15	5
Thallium	<0.000085		0.00050	0.000085	mg/L		07/05/17 16:10	07/06/17 20:15	5

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Selenium	<0.00024		0.0013	0.00024	mg/L		07/05/17 16:10	07/10/17 15:32	5

Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.000070		0.00020	0.000070	mg/L		07/09/17 09:49	07/10/17 13:05	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	320		5.0	3.4	mg/L			07/01/17 13:26	1

Client Sample Results

Client: Southern Company
Project/Site: CCR - Plant Scherer

TestAmerica Job ID: 400-139893-1
SDG: Ash Pond

Client Sample ID: SGWC-15

Lab Sample ID: 400-139893-33

Date Collected: 06/27/17 14:55

Matrix: Water

Date Received: 06/29/17 08:50

Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	9.5		1.0	0.89	mg/L			07/04/17 01:07	1
Fluoride	0.13	J	0.20	0.082	mg/L			07/04/17 01:07	1
Sulfate	200		5.0	3.5	mg/L			07/05/17 18:15	5

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0010		0.0025	0.0010	mg/L		07/05/17 16:10	07/06/17 20:20	5
Arsenic	0.0011	J	0.0013	0.00046	mg/L		07/05/17 16:10	07/06/17 20:20	5
Barium	0.041		0.0025	0.00049	mg/L		07/05/17 16:10	07/06/17 20:20	5
Beryllium	0.00040	J	0.0025	0.00034	mg/L		07/05/17 16:10	07/06/17 20:20	5
Boron	1.7		0.050	0.021	mg/L		07/05/17 16:10	07/06/17 20:20	5
Cadmium	<0.00034		0.0025	0.00034	mg/L		07/05/17 16:10	07/06/17 20:20	5
Calcium	16		0.25	0.13	mg/L		07/05/17 16:10	07/06/17 20:20	5
Chromium	0.035		0.0025	0.0011	mg/L		07/05/17 16:10	07/06/17 20:20	5
Cobalt	0.29		0.0025	0.00040	mg/L		07/05/17 16:10	07/06/17 20:20	5
Lead	<0.00035		0.0013	0.00035	mg/L		07/05/17 16:10	07/06/17 20:20	5
Lithium	<0.0032		0.0050	0.0032	mg/L		07/05/17 16:10	07/06/17 20:20	5
Molybdenum	<0.00085		0.015	0.00085	mg/L		07/05/17 16:10	07/06/17 20:20	5
Thallium	0.00010	J	0.00050	0.000085	mg/L		07/05/17 16:10	07/06/17 20:20	5

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Selenium	0.0013		0.0013	0.00024	mg/L		07/05/17 16:10	07/10/17 15:37	5

Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.000084	J	0.00020	0.000070	mg/L		07/09/17 09:49	07/10/17 13:06	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	290		5.0	3.4	mg/L			07/01/17 13:26	1

Client Sample Results

Client: Southern Company
Project/Site: CCR - Plant Scherer

TestAmerica Job ID: 400-139893-1
SDG: Ash Pond

Client Sample ID: SGWC-16

Lab Sample ID: 400-139893-34

Date Collected: 06/27/17 15:20

Matrix: Water

Date Received: 06/29/17 08:50

Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	8.0		1.0	0.89	mg/L			07/04/17 01:30	1
Fluoride	<0.082		0.20	0.082	mg/L			07/04/17 01:30	1
Sulfate	19		1.0	0.70	mg/L			07/04/17 01:30	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0010		0.0025	0.0010	mg/L		07/05/17 16:10	07/06/17 20:24	5
Arsenic	0.00055	J	0.0013	0.00046	mg/L		07/05/17 16:10	07/06/17 20:24	5
Barium	0.020		0.0025	0.00049	mg/L		07/05/17 16:10	07/06/17 20:24	5
Beryllium	<0.00034		0.0025	0.00034	mg/L		07/05/17 16:10	07/06/17 20:24	5
Boron	0.56		0.050	0.021	mg/L		07/05/17 16:10	07/06/17 20:24	5
Cadmium	<0.00034		0.0025	0.00034	mg/L		07/05/17 16:10	07/06/17 20:24	5
Calcium	0.76		0.25	0.13	mg/L		07/05/17 16:10	07/06/17 20:24	5
Chromium	0.0096		0.0025	0.0011	mg/L		07/05/17 16:10	07/06/17 20:24	5
Cobalt	0.0037		0.0025	0.00040	mg/L		07/05/17 16:10	07/06/17 20:24	5
Lead	<0.00035		0.0013	0.00035	mg/L		07/05/17 16:10	07/06/17 20:24	5
Lithium	<0.0032		0.0050	0.0032	mg/L		07/05/17 16:10	07/06/17 20:24	5
Molybdenum	<0.00085		0.015	0.00085	mg/L		07/05/17 16:10	07/06/17 20:24	5
Thallium	<0.000085		0.00050	0.000085	mg/L		07/05/17 16:10	07/06/17 20:24	5

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Selenium	0.0010	J	0.0013	0.00024	mg/L		07/05/17 16:10	07/10/17 15:41	5

Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.000070		0.00020	0.000070	mg/L		07/09/17 09:49	07/10/17 13:18	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	50		5.0	3.4	mg/L			07/01/17 13:26	1

Definitions/Glossary

Client: Southern Company
Project/Site: CCR - Plant Scherer

TestAmerica Job ID: 400-139893-1
SDG: Ash Pond

Qualifiers

HPLC/IC

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.
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.

Metals

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.
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.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
α	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
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)
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
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)

Lab Chronicle

Client: Southern Company
Project/Site: CCR - Plant Scherer

TestAmerica Job ID: 400-139893-1
SDG: Ash Pond

Client Sample ID: SGWA-4

Date Collected: 06/26/17 14:30

Date Received: 06/28/17 08:33

Lab Sample ID: 400-139893-1

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	300.0		1	359035	06/30/17 17:37	TAJ	TAL PEN
Total Recoverable	Prep	3005A			359450	07/05/17 16:06	DRE	TAL PEN
Total Recoverable	Analysis	6020		5	359826	07/06/17 13:28	DRE	TAL PEN
Total/NA	Prep	7470A			359642	07/08/17 13:06	DN1	TAL PEN
Total/NA	Analysis	7470A		1	359923	07/10/17 11:38	JAP	TAL PEN
Total/NA	Analysis	SM 2540C		1	358873	06/29/17 16:16	TET	TAL PEN

Client Sample ID: EB-1(AP)

Date Collected: 06/26/17 15:30

Date Received: 06/28/17 08:33

Lab Sample ID: 400-139893-2

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	300.0		1	359035	06/30/17 18:46	TAJ	TAL PEN
Total Recoverable	Prep	3005A			359450	07/05/17 16:06	DRE	TAL PEN
Total Recoverable	Analysis	6020		5	359826	07/06/17 13:33	DRE	TAL PEN
Total/NA	Prep	7470A			359642	07/08/17 13:06	DN1	TAL PEN
Total/NA	Analysis	7470A		1	359923	07/10/17 11:44	JAP	TAL PEN
Total/NA	Analysis	SM 2540C		1	358873	06/29/17 16:16	TET	TAL PEN

Client Sample ID: SGWA-3

Date Collected: 06/26/17 12:55

Date Received: 06/28/17 08:33

Lab Sample ID: 400-139893-3

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	300.0		1	359244	07/03/17 18:39	TAJ	TAL PEN
Total Recoverable	Prep	3005A			359450	07/05/17 16:06	DRE	TAL PEN
Total Recoverable	Analysis	6020		5	359826	07/06/17 13:37	DRE	TAL PEN
Total/NA	Prep	7470A			359642	07/08/17 13:06	DN1	TAL PEN
Total/NA	Analysis	7470A		1	359923	07/10/17 11:46	JAP	TAL PEN
Total/NA	Analysis	SM 2540C		1	358873	06/29/17 16:16	TET	TAL PEN

Client Sample ID: SGWA-5

Date Collected: 06/26/17 10:25

Date Received: 06/28/17 08:33

Lab Sample ID: 400-139893-4

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	300.0		1	359035	06/30/17 19:09	TAJ	TAL PEN
Total Recoverable	Prep	3005A			359450	07/05/17 16:06	DRE	TAL PEN
Total Recoverable	Analysis	6020		5	359826	07/06/17 13:42	DRE	TAL PEN
Total/NA	Prep	7470A			359642	07/08/17 13:06	DN1	TAL PEN
Total/NA	Analysis	7470A		1	359923	07/10/17 11:48	JAP	TAL PEN
Total/NA	Analysis	SM 2540C		1	358873	06/29/17 16:16	TET	TAL PEN

TestAmerica Pensacola

Lab Chronicle

Client: Southern Company
Project/Site: CCR - Plant Scherer

TestAmerica Job ID: 400-139893-1
SDG: Ash Pond

Client Sample ID: FB-1(AP)

Lab Sample ID: 400-139893-5

Date Collected: 06/26/17 10:00

Matrix: Water

Date Received: 06/28/17 08:33

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	300.0		1	359035	06/30/17 19:31	TAJ	TAL PEN
Total Recoverable	Prep	3005A			359450	07/05/17 16:06	DRE	TAL PEN
Total Recoverable	Analysis	6020		5	359826	07/06/17 13:46	DRE	TAL PEN
Total/NA	Prep	7470A			359642	07/08/17 13:06	DN1	TAL PEN
Total/NA	Analysis	7470A		1	359923	07/10/17 11:49	JAP	TAL PEN
Total/NA	Analysis	SM 2540C		1	358873	06/29/17 16:16	TET	TAL PEN

Client Sample ID: SGWA-1

Lab Sample ID: 400-139893-6

Date Collected: 06/26/17 13:50

Matrix: Water

Date Received: 06/28/17 08:33

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	300.0		1	359035	07/01/17 09:52	TAJ	TAL PEN
Total Recoverable	Prep	3005A			359450	07/05/17 16:06	DRE	TAL PEN
Total Recoverable	Analysis	6020		5	359826	07/06/17 13:51	DRE	TAL PEN
Total/NA	Prep	7470A			359642	07/08/17 13:06	DN1	TAL PEN
Total/NA	Analysis	7470A		1	359923	07/10/17 11:59	JAP	TAL PEN
Total/NA	Analysis	SM 2540C		1	358873	06/29/17 16:16	TET	TAL PEN

Client Sample ID: FD-1(AP)

Lab Sample ID: 400-139893-7

Date Collected: 06/26/17 00:00

Matrix: Water

Date Received: 06/28/17 08:33

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	300.0		1	359035	07/01/17 10:15	TAJ	TAL PEN
Total Recoverable	Prep	3005A			359450	07/05/17 16:06	DRE	TAL PEN
Total Recoverable	Analysis	6020		5	359826	07/06/17 13:56	DRE	TAL PEN
Total/NA	Prep	7470A			359642	07/08/17 13:06	DN1	TAL PEN
Total/NA	Analysis	7470A		1	359923	07/10/17 12:01	JAP	TAL PEN
Total/NA	Analysis	SM 2540C		1	358873	06/29/17 16:16	TET	TAL PEN

Client Sample ID: SGWA-2

Lab Sample ID: 400-139893-8

Date Collected: 06/26/17 15:30

Matrix: Water

Date Received: 06/28/17 08:33

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	300.0		1	359035	07/01/17 10:37	TAJ	TAL PEN
Total Recoverable	Prep	3005A			359450	07/05/17 16:06	DRE	TAL PEN
Total Recoverable	Analysis	6020		5	359826	07/06/17 14:00	DRE	TAL PEN
Total/NA	Prep	7470A			359642	07/08/17 13:06	DN1	TAL PEN
Total/NA	Analysis	7470A		1	359923	07/10/17 12:03	JAP	TAL PEN
Total/NA	Analysis	SM 2540C		1	358873	06/29/17 16:16	TET	TAL PEN

TestAmerica Pensacola

Lab Chronicle

Client: Southern Company
Project/Site: CCR - Plant Scherer

TestAmerica Job ID: 400-139893-1
SDG: Ash Pond

Client Sample ID: SGWA-24

Lab Sample ID: 400-139893-9

Date Collected: 06/26/17 14:55

Matrix: Water

Date Received: 06/28/17 08:33

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	300.0		1	359035	07/01/17 11:00	TAJ	TAL PEN
Total Recoverable	Prep	3005A			359450	07/05/17 16:06	DRE	TAL PEN
Total Recoverable	Analysis	6020		5	359826	07/06/17 14:05	DRE	TAL PEN
Total/NA	Prep	7470A			359642	07/08/17 13:06	DN1	TAL PEN
Total/NA	Analysis	7470A		1	359923	07/10/17 12:05	JAP	TAL PEN
Total/NA	Analysis	SM 2540C		1	358873	06/29/17 16:16	TET	TAL PEN

Client Sample ID: SGWC-22

Lab Sample ID: 400-139893-10

Date Collected: 06/28/17 09:15

Matrix: Water

Date Received: 06/29/17 08:50

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	300.0		1	359035	07/01/17 11:23	TAJ	TAL PEN
Total/NA	Analysis	300.0		5	359244	07/03/17 19:02	TAJ	TAL PEN
Total Recoverable	Prep	3005A			359450	07/05/17 16:06	DRE	TAL PEN
Total Recoverable	Analysis	6020		5	359826	07/06/17 14:10	DRE	TAL PEN
Total/NA	Prep	7470A			359642	07/08/17 13:06	DN1	TAL PEN
Total/NA	Analysis	7470A		1	359923	07/10/17 12:06	JAP	TAL PEN
Total/NA	Analysis	SM 2540C		1	359163	07/02/17 13:14	RRC	TAL PEN

Client Sample ID: SGWC-19

Lab Sample ID: 400-139893-11

Date Collected: 06/28/17 09:10

Matrix: Water

Date Received: 06/29/17 08:50

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	300.0		1	359035	07/01/17 11:46	TAJ	TAL PEN
Total/NA	Analysis	300.0		5	359244	07/03/17 19:25	TAJ	TAL PEN
Total Recoverable	Prep	3005A			359450	07/05/17 16:06	DRE	TAL PEN
Total Recoverable	Analysis	6020		5	359826	07/06/17 14:32	DRE	TAL PEN
Total Recoverable	Prep	3005A	DL		359450	07/05/17 16:06	DRE	TAL PEN
Total Recoverable	Analysis	6020	DL	25	359826	07/06/17 20:29	DRE	TAL PEN
Total/NA	Prep	7470A			359642	07/08/17 13:06	DN1	TAL PEN
Total/NA	Analysis	7470A		1	359923	07/10/17 12:08	JAP	TAL PEN
Total/NA	Analysis	SM 2540C		1	359163	07/02/17 13:14	RRC	TAL PEN

Client Sample ID: SGWC-21

Lab Sample ID: 400-139893-12

Date Collected: 06/28/17 09:35

Matrix: Water

Date Received: 06/29/17 08:50

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	300.0		1	359201	07/01/17 22:05	TAJ	TAL PEN
Total/NA	Analysis	300.0		5	359244	07/03/17 19:48	TAJ	TAL PEN

TestAmerica Pensacola

Lab Chronicle

Client: Southern Company
Project/Site: CCR - Plant Scherer

TestAmerica Job ID: 400-139893-1
SDG: Ash Pond

Client Sample ID: SGWC-21

Lab Sample ID: 400-139893-12

Date Collected: 06/28/17 09:35

Matrix: Water

Date Received: 06/29/17 08:50

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total Recoverable	Prep	3005A			359450	07/05/17 16:06	DRE	TAL PEN
Total Recoverable	Analysis	6020		5	359826	07/06/17 14:37	DRE	TAL PEN
Total/NA	Prep	7470A			359642	07/08/17 13:06	DN1	TAL PEN
Total/NA	Analysis	7470A		1	359923	07/10/17 12:10	JAP	TAL PEN
Total/NA	Analysis	SM 2540C		1	359163	07/02/17 13:14	RRC	TAL PEN

Client Sample ID: SGWC-23

Lab Sample ID: 400-139893-13

Date Collected: 06/28/17 10:35

Matrix: Water

Date Received: 06/29/17 08:50

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	300.0		1	359201	07/01/17 23:14	TAJ	TAL PEN
Total/NA	Analysis	300.0		5	359244	07/03/17 20:10	TAJ	TAL PEN
Total Recoverable	Prep	3005A			359450	07/05/17 16:06	DRE	TAL PEN
Total Recoverable	Analysis	6020		5	359826	07/06/17 14:41	DRE	TAL PEN
Total/NA	Prep	7470A			359642	07/08/17 13:06	DN1	TAL PEN
Total/NA	Analysis	7470A		1	359923	07/10/17 12:11	JAP	TAL PEN
Total/NA	Analysis	SM 2540C		1	359163	07/02/17 13:14	RRC	TAL PEN

Client Sample ID: SGWC-18

Lab Sample ID: 400-139893-14

Date Collected: 06/28/17 10:15

Matrix: Water

Date Received: 06/29/17 08:50

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	300.0		1	359201	07/01/17 23:37	TAJ	TAL PEN
Total/NA	Analysis	300.0		10	359244	07/03/17 20:33	TAJ	TAL PEN
Total Recoverable	Prep	3005A			359450	07/05/17 16:06	DRE	TAL PEN
Total Recoverable	Analysis	6020		5	359826	07/06/17 14:46	DRE	TAL PEN
Total Recoverable	Prep	3005A	DL		359450	07/05/17 16:06	DRE	TAL PEN
Total Recoverable	Analysis	6020	DL	25	359826	07/06/17 20:33	DRE	TAL PEN
Total/NA	Prep	7470A			359642	07/08/17 13:06	DN1	TAL PEN
Total/NA	Analysis	7470A		1	359923	07/10/17 12:13	JAP	TAL PEN
Total/NA	Analysis	SM 2540C		1	359163	07/02/17 13:14	RRC	TAL PEN

Client Sample ID: SGWC-20

Lab Sample ID: 400-139893-15

Date Collected: 06/28/17 11:05

Matrix: Water

Date Received: 06/29/17 08:50

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	300.0		1	359201	07/01/17 23:59	TAJ	TAL PEN
Total/NA	Analysis	300.0		10	359244	07/03/17 20:56	TAJ	TAL PEN
Total Recoverable	Prep	3005A			359450	07/05/17 16:06	DRE	TAL PEN

TestAmerica Pensacola

Lab Chronicle

Client: Southern Company
Project/Site: CCR - Plant Scherer

TestAmerica Job ID: 400-139893-1
SDG: Ash Pond

Client Sample ID: SGWC-20

Lab Sample ID: 400-139893-15

Date Collected: 06/28/17 11:05

Matrix: Water

Date Received: 06/29/17 08:50

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total Recoverable	Analysis	6020		5	359826	07/06/17 14:50	DRE	TAL PEN
Total Recoverable	Prep	3005A	DL		359450	07/05/17 16:06	DRE	TAL PEN
Total Recoverable	Analysis	6020	DL	25	359826	07/06/17 20:38	DRE	TAL PEN
Total/NA	Prep	7470A			359642	07/08/17 13:06	DN1	TAL PEN
Total/NA	Analysis	7470A		1	359923	07/10/17 12:15	JAP	TAL PEN
Total/NA	Analysis	SM 2540C		1	359163	07/02/17 13:14	RRC	TAL PEN

Client Sample ID: FD-3(AP)

Lab Sample ID: 400-139893-16

Date Collected: 06/28/17 00:00

Matrix: Water

Date Received: 06/29/17 08:50

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	300.0		1	359201	07/02/17 01:08	TAJ	TAL PEN
Total/NA	Analysis	300.0		5	359244	07/03/17 21:19	TAJ	TAL PEN
Total Recoverable	Prep	3005A			359450	07/05/17 16:06	DRE	TAL PEN
Total Recoverable	Analysis	6020		5	359826	07/06/17 14:55	DRE	TAL PEN
Total/NA	Prep	7470A			359642	07/08/17 13:06	DN1	TAL PEN
Total/NA	Analysis	7470A		1	359923	07/10/17 12:26	JAP	TAL PEN
Total/NA	Analysis	SM 2540C		1	359125	07/01/17 13:26	TET	TAL PEN

Client Sample ID: FB-3(AP)

Lab Sample ID: 400-139893-17

Date Collected: 06/28/17 08:40

Matrix: Water

Date Received: 06/29/17 08:50

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	300.0		1	359201	07/02/17 01:31	TAJ	TAL PEN
Total Recoverable	Prep	3005A			359451	07/05/17 16:10	DRE	TAL PEN
Total Recoverable	Analysis	6020		5	359826	07/06/17 18:14	DRE	TAL PEN
Total/NA	Prep	7470A			359642	07/08/17 13:06	DN1	TAL PEN
Total/NA	Analysis	7470A		1	359923	07/10/17 12:27	JAP	TAL PEN
Total/NA	Analysis	SM 2540C		1	359163	07/02/17 13:14	RRC	TAL PEN

Client Sample ID: EB-3(AP)

Lab Sample ID: 400-139893-18

Date Collected: 06/28/17 11:00

Matrix: Water

Date Received: 06/29/17 08:50

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	300.0		1	359201	07/02/17 01:53	TAJ	TAL PEN
Total Recoverable	Prep	3005A			359451	07/05/17 16:10	DRE	TAL PEN
Total Recoverable	Analysis	6020		5	359826	07/06/17 18:18	DRE	TAL PEN
Total/NA	Prep	7470A			359642	07/08/17 13:06	DN1	TAL PEN
Total/NA	Analysis	7470A		1	359923	07/10/17 12:29	JAP	TAL PEN

TestAmerica Pensacola

Lab Chronicle

Client: Southern Company
Project/Site: CCR - Plant Scherer

TestAmerica Job ID: 400-139893-1
SDG: Ash Pond

Client Sample ID: EB-3(AP)

Lab Sample ID: 400-139893-18

Date Collected: 06/28/17 11:00

Matrix: Water

Date Received: 06/29/17 08:50

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	SM 2540C		1	359163	07/02/17 13:14	RRC	TAL PEN

Client Sample ID: SGWC-7

Lab Sample ID: 400-139893-19

Date Collected: 06/27/17 12:45

Matrix: Water

Date Received: 06/29/17 08:50

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	300.0		1	359201	07/02/17 02:16	TAJ	TAL PEN
Total Recoverable	Prep	3005A			359451	07/05/17 16:10	DRE	TAL PEN
Total Recoverable	Analysis	6020		5	359826	07/06/17 18:23	DRE	TAL PEN
Total/NA	Prep	7470A			359642	07/08/17 13:06	DN1	TAL PEN
Total/NA	Analysis	7470A		1	359923	07/10/17 12:31	JAP	TAL PEN
Total/NA	Analysis	SM 2540C		1	359125	07/01/17 13:26	TET	TAL PEN

Client Sample ID: SGWC-6

Lab Sample ID: 400-139893-20

Date Collected: 06/27/17 10:25

Matrix: Water

Date Received: 06/29/17 08:50

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	300.0		1	359201	07/02/17 02:39	TAJ	TAL PEN
Total Recoverable	Prep	3005A			359451	07/05/17 16:10	DRE	TAL PEN
Total Recoverable	Analysis	6020		5	359826	07/06/17 18:45	DRE	TAL PEN
Total/NA	Prep	7470A			359642	07/08/17 13:06	DN1	TAL PEN
Total/NA	Analysis	7470A		1	359923	07/10/17 12:32	JAP	TAL PEN
Total/NA	Analysis	SM 2540C		1	359125	07/01/17 13:26	TET	TAL PEN

Client Sample ID: SGWA-25

Lab Sample ID: 400-139893-21

Date Collected: 06/27/17 09:20

Matrix: Water

Date Received: 06/29/17 08:50

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	300.0		1	359201	07/02/17 03:02	TAJ	TAL PEN
Total Recoverable	Prep	3005A			359451	07/05/17 16:10	DRE	TAL PEN
Total Recoverable	Analysis	6020		5	359826	07/06/17 19:17	DRE	TAL PEN
Total/NA	Prep	7470A			359800	07/09/17 09:49	DN1	TAL PEN
Total/NA	Analysis	7470A		1	359923	07/10/17 12:38	JAP	TAL PEN
Total/NA	Analysis	SM 2540C		1	359125	07/01/17 13:26	TET	TAL PEN

Lab Chronicle

Client: Southern Company
Project/Site: CCR - Plant Scherer

TestAmerica Job ID: 400-139893-1
SDG: Ash Pond

Client Sample ID: SGWC-17

Lab Sample ID: 400-139893-22

Date Collected: 06/27/17 14:40

Matrix: Water

Date Received: 06/29/17 08:50

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	300.0		1	359201	07/02/17 03:25	TAJ	TAL PEN
Total/NA	Analysis	300.0		5	359244	07/03/17 21:42	TAJ	TAL PEN
Total Recoverable	Prep	3005A			359451	07/05/17 16:10	DRE	TAL PEN
Total Recoverable	Analysis	6020		5	359826	07/06/17 19:21	DRE	TAL PEN
Total/NA	Prep	7470A			359800	07/09/17 09:49	DN1	TAL PEN
Total/NA	Analysis	7470A		1	359923	07/10/17 12:40	JAP	TAL PEN
Total/NA	Analysis	SM 2540C		1	359125	07/01/17 13:26	TET	TAL PEN

Client Sample ID: SGWC-11

Lab Sample ID: 400-139893-23

Date Collected: 06/27/17 09:20

Matrix: Water

Date Received: 06/29/17 08:50

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	300.0		1	359201	07/02/17 04:10	TAJ	TAL PEN
Total Recoverable	Prep	3005A			359451	07/05/17 16:10	DRE	TAL PEN
Total Recoverable	Analysis	6020		5	359826	07/06/17 19:26	DRE	TAL PEN
Total/NA	Prep	7470A			359800	07/09/17 09:49	DN1	TAL PEN
Total/NA	Analysis	7470A		1	359923	07/10/17 12:41	JAP	TAL PEN
Total/NA	Analysis	SM 2540C		1	359125	07/01/17 13:26	TET	TAL PEN

Client Sample ID: SGWC-8

Lab Sample ID: 400-139893-24

Date Collected: 06/27/17 09:30

Matrix: Water

Date Received: 06/29/17 08:50

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	300.0		1	359201	07/02/17 04:33	TAJ	TAL PEN
Total/NA	Analysis	300.0		5	359244	07/03/17 23:13	TAJ	TAL PEN
Total Recoverable	Prep	3005A			359451	07/05/17 16:10	DRE	TAL PEN
Total Recoverable	Analysis	6020		5	359826	07/06/17 19:30	DRE	TAL PEN
Total/NA	Prep	7470A			359800	07/09/17 09:49	DN1	TAL PEN
Total/NA	Analysis	7470A		1	359923	07/10/17 12:51	JAP	TAL PEN
Total/NA	Analysis	SM 2540C		1	359125	07/01/17 13:26	TET	TAL PEN

Client Sample ID: SGWC-12

Lab Sample ID: 400-139893-25

Date Collected: 06/27/17 10:50

Matrix: Water

Date Received: 06/29/17 08:50

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	300.0		1	359201	07/02/17 05:42	TAJ	TAL PEN
Total Recoverable	Prep	3005A			359451	07/05/17 16:10	DRE	TAL PEN
Total Recoverable	Analysis	6020		5	359826	07/06/17 19:35	DRE	TAL PEN
Total/NA	Prep	7470A			359800	07/09/17 09:49	DN1	TAL PEN

TestAmerica Pensacola

Lab Chronicle

Client: Southern Company
Project/Site: CCR - Plant Scherer

TestAmerica Job ID: 400-139893-1
SDG: Ash Pond

Client Sample ID: SGWC-12

Lab Sample ID: 400-139893-25

Date Collected: 06/27/17 10:50

Matrix: Water

Date Received: 06/29/17 08:50

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	7470A		1	359923	07/10/17 12:53	JAP	TAL PEN
Total/NA	Analysis	SM 2540C		1	359125	07/01/17 13:26	TET	TAL PEN

Client Sample ID: SGWC-9

Lab Sample ID: 400-139893-26

Date Collected: 06/27/17 10:50

Matrix: Water

Date Received: 06/29/17 08:50

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	300.0		1	359201	07/02/17 06:04	TAJ	TAL PEN
Total/NA	Analysis	300.0		10	359244	07/03/17 23:36	TAJ	TAL PEN
Total Recoverable	Prep	3005A			359451	07/05/17 16:10	DRE	TAL PEN
Total Recoverable	Analysis	6020		5	359826	07/06/17 19:39	DRE	TAL PEN
Total/NA	Prep	7470A			359800	07/09/17 09:49	DN1	TAL PEN
Total/NA	Analysis	7470A		1	359923	07/10/17 12:54	JAP	TAL PEN
Total/NA	Analysis	SM 2540C		1	359125	07/01/17 13:26	TET	TAL PEN

Client Sample ID: SGWC-13

Lab Sample ID: 400-139893-27

Date Collected: 06/27/17 11:55

Matrix: Water

Date Received: 06/29/17 08:50

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	300.0		1	359201	07/02/17 06:27	TAJ	TAL PEN
Total/NA	Analysis	300.0		5	359244	07/03/17 23:59	TAJ	TAL PEN
Total Recoverable	Prep	3005A			359451	07/05/17 16:10	DRE	TAL PEN
Total Recoverable	Analysis	6020		5	359826	07/06/17 19:44	DRE	TAL PEN
Total/NA	Prep	7470A			359800	07/09/17 09:49	DN1	TAL PEN
Total/NA	Analysis	7470A		1	359923	07/10/17 12:56	JAP	TAL PEN
Total/NA	Analysis	SM 2540C		1	359125	07/01/17 13:26	TET	TAL PEN

Client Sample ID: FD-2

Lab Sample ID: 400-139893-28

Date Collected: 06/27/17 00:00

Matrix: Water

Date Received: 06/29/17 08:50

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	300.0		1	359201	07/02/17 06:50	TAJ	TAL PEN
Total Recoverable	Prep	3005A			359451	07/05/17 16:10	DRE	TAL PEN
Total Recoverable	Analysis	6020		5	359826	07/06/17 19:48	DRE	TAL PEN
Total/NA	Prep	7470A			359800	07/09/17 09:49	DN1	TAL PEN
Total/NA	Analysis	7470A		1	359923	07/10/17 12:58	JAP	TAL PEN
Total/NA	Analysis	SM 2540C		1	359125	07/01/17 13:26	TET	TAL PEN

Lab Chronicle

Client: Southern Company
Project/Site: CCR - Plant Scherer

TestAmerica Job ID: 400-139893-1
SDG: Ash Pond

Client Sample ID: FB-2(AP)

Lab Sample ID: 400-139893-29

Date Collected: 06/27/17 08:50

Matrix: Water

Date Received: 06/29/17 08:50

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	300.0		1	359201	07/02/17 07:13	TAJ	TAL PEN
Total Recoverable	Prep	3005A			359451	07/05/17 16:10	DRE	TAL PEN
Total Recoverable	Analysis	6020		5	359826	07/06/17 19:08	DRE	TAL PEN
Total/NA	Prep	7470A			359800	07/09/17 09:49	DN1	TAL PEN
Total/NA	Analysis	7470A		1	359923	07/10/17 12:59	JAP	TAL PEN
Total/NA	Analysis	SM 2540C		1	359125	07/01/17 13:26	TET	TAL PEN

Client Sample ID: EB-2(AP)

Lab Sample ID: 400-139893-30

Date Collected: 06/27/17 15:20

Matrix: Water

Date Received: 06/29/17 08:50

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	300.0		1	359201	07/02/17 07:36	TAJ	TAL PEN
Total Recoverable	Prep	3005A			359451	07/05/17 16:10	DRE	TAL PEN
Total Recoverable	Analysis	6020		5	359826	07/06/17 19:12	DRE	TAL PEN
Total/NA	Prep	7470A			359800	07/09/17 09:49	DN1	TAL PEN
Total/NA	Analysis	7470A		1	359923	07/10/17 13:01	JAP	TAL PEN
Total/NA	Analysis	SM 2540C		1	359125	07/01/17 13:26	TET	TAL PEN

Client Sample ID: SGWC-10

Lab Sample ID: 400-139893-31

Date Collected: 06/27/17 13:45

Matrix: Water

Date Received: 06/29/17 08:50

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	300.0		1	359201	07/02/17 07:59	TAJ	TAL PEN
Total Recoverable	Prep	3005A			359451	07/05/17 16:10	DRE	TAL PEN
Total Recoverable	Analysis	6020		5	359826	07/06/17 20:11	DRE	TAL PEN
Total Recoverable	Prep	3005A	RA		359451	07/05/17 16:10	DRE	TAL PEN
Total Recoverable	Analysis	6020	RA	5	360021	07/10/17 15:28	DRE	TAL PEN
Total/NA	Prep	7470A			359800	07/09/17 09:49	DN1	TAL PEN
Total/NA	Analysis	7470A		1	359923	07/10/17 13:03	JAP	TAL PEN
Total/NA	Analysis	SM 2540C		1	359125	07/01/17 13:26	TET	TAL PEN

Client Sample ID: SGWC-14

Lab Sample ID: 400-139893-32

Date Collected: 06/27/17 13:55

Matrix: Water

Date Received: 06/29/17 08:50

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	300.0		1	359244	07/04/17 00:44	TAJ	TAL PEN
Total/NA	Analysis	300.0		5	359417	07/05/17 16:48	TAJ	TAL PEN
Total Recoverable	Prep	3005A			359451	07/05/17 16:10	DRE	TAL PEN
Total Recoverable	Analysis	6020		5	359826	07/06/17 20:15	DRE	TAL PEN

TestAmerica Pensacola

Lab Chronicle

Client: Southern Company
Project/Site: CCR - Plant Scherer

TestAmerica Job ID: 400-139893-1
SDG: Ash Pond

Client Sample ID: SGWC-14

Lab Sample ID: 400-139893-32

Date Collected: 06/27/17 13:55

Matrix: Water

Date Received: 06/29/17 08:50

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total Recoverable	Prep	3005A	RA		359451	07/05/17 16:10	DRE	TAL PEN
Total Recoverable	Analysis	6020	RA	5	360021	07/10/17 15:32	DRE	TAL PEN
Total/NA	Prep	7470A			359800	07/09/17 09:49	DN1	TAL PEN
Total/NA	Analysis	7470A		1	359923	07/10/17 13:05	JAP	TAL PEN
Total/NA	Analysis	SM 2540C		1	359125	07/01/17 13:26	TET	TAL PEN

Client Sample ID: SGWC-15

Lab Sample ID: 400-139893-33

Date Collected: 06/27/17 14:55

Matrix: Water

Date Received: 06/29/17 08:50

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	300.0		1	359244	07/04/17 01:07	TAJ	TAL PEN
Total/NA	Analysis	300.0		5	359417	07/05/17 18:15	TAJ	TAL PEN
Total Recoverable	Prep	3005A			359451	07/05/17 16:10	DRE	TAL PEN
Total Recoverable	Analysis	6020		5	359826	07/06/17 20:20	DRE	TAL PEN
Total Recoverable	Prep	3005A	RA		359451	07/05/17 16:10	DRE	TAL PEN
Total Recoverable	Analysis	6020	RA	5	360021	07/10/17 15:37	DRE	TAL PEN
Total/NA	Prep	7470A			359800	07/09/17 09:49	DN1	TAL PEN
Total/NA	Analysis	7470A		1	359923	07/10/17 13:06	JAP	TAL PEN
Total/NA	Analysis	SM 2540C		1	359125	07/01/17 13:26	TET	TAL PEN

Client Sample ID: SGWC-16

Lab Sample ID: 400-139893-34

Date Collected: 06/27/17 15:20

Matrix: Water

Date Received: 06/29/17 08:50

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	300.0		1	359244	07/04/17 01:30	TAJ	TAL PEN
Total Recoverable	Prep	3005A			359451	07/05/17 16:10	DRE	TAL PEN
Total Recoverable	Analysis	6020		5	359826	07/06/17 20:24	DRE	TAL PEN
Total Recoverable	Prep	3005A	RA		359451	07/05/17 16:10	DRE	TAL PEN
Total Recoverable	Analysis	6020	RA	5	360021	07/10/17 15:41	DRE	TAL PEN
Total/NA	Prep	7470A			359800	07/09/17 09:49	DN1	TAL PEN
Total/NA	Analysis	7470A		1	359923	07/10/17 13:18	JAP	TAL PEN
Total/NA	Analysis	SM 2540C		1	359125	07/01/17 13:26	TET	TAL PEN

Laboratory References:

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

QC Association Summary

Client: Southern Company
Project/Site: CCR - Plant Scherer

TestAmerica Job ID: 400-139893-1
SDG: Ash Pond

HPLC/IC

Analysis Batch: 359035

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-139893-1	SGWA-4	Total/NA	Water	300.0	
400-139893-2	EB-1(AP)	Total/NA	Water	300.0	
400-139893-4	SGWA-5	Total/NA	Water	300.0	
400-139893-5	FB-1(AP)	Total/NA	Water	300.0	
400-139893-6	SGWA-1	Total/NA	Water	300.0	
400-139893-7	FD-1(AP)	Total/NA	Water	300.0	
400-139893-8	SGWA-2	Total/NA	Water	300.0	
400-139893-9	SGWA-24	Total/NA	Water	300.0	
400-139893-10	SGWC-22	Total/NA	Water	300.0	
400-139893-11	SGWC-19	Total/NA	Water	300.0	
MB 400-359035/4	Method Blank	Total/NA	Water	300.0	
LCS 400-359035/5	Lab Control Sample	Total/NA	Water	300.0	
LCSD 400-359035/6	Lab Control Sample Dup	Total/NA	Water	300.0	
400-139715-A-6 MS	Matrix Spike	Total/NA	Water	300.0	
400-139715-A-6 MSD	Matrix Spike Duplicate	Total/NA	Water	300.0	

Analysis Batch: 359201

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-139893-12	SGWC-21	Total/NA	Water	300.0	
400-139893-13	SGWC-23	Total/NA	Water	300.0	
400-139893-14	SGWC-18	Total/NA	Water	300.0	
400-139893-15	SGWC-20	Total/NA	Water	300.0	
400-139893-16	FD-3(AP)	Total/NA	Water	300.0	
400-139893-17	FB-3(AP)	Total/NA	Water	300.0	
400-139893-18	EB-3(AP)	Total/NA	Water	300.0	
400-139893-19	SGWC-7	Total/NA	Water	300.0	
400-139893-20	SGWC-6	Total/NA	Water	300.0	
400-139893-21	SGWA-25	Total/NA	Water	300.0	
400-139893-22	SGWC-17	Total/NA	Water	300.0	
400-139893-23	SGWC-11	Total/NA	Water	300.0	
400-139893-24	SGWC-8	Total/NA	Water	300.0	
400-139893-25	SGWC-12	Total/NA	Water	300.0	
400-139893-26	SGWC-9	Total/NA	Water	300.0	
400-139893-27	SGWC-13	Total/NA	Water	300.0	
400-139893-28	FD-2	Total/NA	Water	300.0	
400-139893-29	FB-2(AP)	Total/NA	Water	300.0	
400-139893-30	EB-2(AP)	Total/NA	Water	300.0	
400-139893-31	SGWC-10	Total/NA	Water	300.0	
MB 400-359201/4	Method Blank	Total/NA	Water	300.0	
LCS 400-359201/5	Lab Control Sample	Total/NA	Water	300.0	
LCSD 400-359201/6	Lab Control Sample Dup	Total/NA	Water	300.0	
400-139893-12 MS	SGWC-21	Total/NA	Water	300.0	
400-139893-12 MSD	SGWC-21	Total/NA	Water	300.0	

Analysis Batch: 359244

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-139893-3	SGWA-3	Total/NA	Water	300.0	
400-139893-10	SGWC-22	Total/NA	Water	300.0	
400-139893-11	SGWC-19	Total/NA	Water	300.0	
400-139893-12	SGWC-21	Total/NA	Water	300.0	
400-139893-13	SGWC-23	Total/NA	Water	300.0	

TestAmerica Pensacola

QC Association Summary

Client: Southern Company
Project/Site: CCR - Plant Scherer

TestAmerica Job ID: 400-139893-1
SDG: Ash Pond

HPLC/IC (Continued)

Analysis Batch: 359244 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-139893-14	SGWC-18	Total/NA	Water	300.0	
400-139893-15	SGWC-20	Total/NA	Water	300.0	
400-139893-16	FD-3(AP)	Total/NA	Water	300.0	
400-139893-22	SGWC-17	Total/NA	Water	300.0	
400-139893-24	SGWC-8	Total/NA	Water	300.0	
400-139893-26	SGWC-9	Total/NA	Water	300.0	
400-139893-27	SGWC-13	Total/NA	Water	300.0	
400-139893-32	SGWC-14	Total/NA	Water	300.0	
400-139893-33	SGWC-15	Total/NA	Water	300.0	
400-139893-34	SGWC-16	Total/NA	Water	300.0	
MB 400-359244/8	Method Blank	Total/NA	Water	300.0	
LCS 400-359244/9	Lab Control Sample	Total/NA	Water	300.0	
LCSD 400-359244/10	Lab Control Sample Dup	Total/NA	Water	300.0	
400-139746-A-17 MS	Matrix Spike	Total/NA	Water	300.0	
400-139746-A-17 MSD	Matrix Spike Duplicate	Total/NA	Water	300.0	

Analysis Batch: 359417

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-139893-32	SGWC-14	Total/NA	Water	300.0	
400-139893-33	SGWC-15	Total/NA	Water	300.0	
MB 400-359417/7	Method Blank	Total/NA	Water	300.0	
LCS 400-359417/8	Lab Control Sample	Total/NA	Water	300.0	
LCSD 400-359417/9	Lab Control Sample Dup	Total/NA	Water	300.0	
400-140001-A-2 MS	Matrix Spike	Total/NA	Water	300.0	
400-140001-A-2 MSD	Matrix Spike Duplicate	Total/NA	Water	300.0	

Metals

Prep Batch: 359450

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-139893-1	SGWA-4	Total Recoverable	Water	3005A	
400-139893-2	EB-1(AP)	Total Recoverable	Water	3005A	
400-139893-3	SGWA-3	Total Recoverable	Water	3005A	
400-139893-4	SGWA-5	Total Recoverable	Water	3005A	
400-139893-5	FB-1(AP)	Total Recoverable	Water	3005A	
400-139893-6	SGWA-1	Total Recoverable	Water	3005A	
400-139893-7	FD-1(AP)	Total Recoverable	Water	3005A	
400-139893-8	SGWA-2	Total Recoverable	Water	3005A	
400-139893-9	SGWA-24	Total Recoverable	Water	3005A	
400-139893-10	SGWC-22	Total Recoverable	Water	3005A	
400-139893-11	SGWC-19	Total Recoverable	Water	3005A	
400-139893-11 - DL	SGWC-19	Total Recoverable	Water	3005A	
400-139893-12	SGWC-21	Total Recoverable	Water	3005A	
400-139893-13	SGWC-23	Total Recoverable	Water	3005A	
400-139893-14 - DL	SGWC-18	Total Recoverable	Water	3005A	
400-139893-14	SGWC-18	Total Recoverable	Water	3005A	
400-139893-15 - DL	SGWC-20	Total Recoverable	Water	3005A	
400-139893-15	SGWC-20	Total Recoverable	Water	3005A	
400-139893-16	FD-3(AP)	Total Recoverable	Water	3005A	
MB 400-359450/1-A ^5	Method Blank	Total Recoverable	Water	3005A	

TestAmerica Pensacola

QC Association Summary

Client: Southern Company
Project/Site: CCR - Plant Scherer

TestAmerica Job ID: 400-139893-1
SDG: Ash Pond

Metals (Continued)

Prep Batch: 359450 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCS 400-359450/2-A	Lab Control Sample	Total Recoverable	Water	3005A	
400-139877-A-1-B MS ^5	Matrix Spike	Total Recoverable	Water	3005A	
400-139877-A-1-C MSD ^5	Matrix Spike Duplicate	Total Recoverable	Water	3005A	

Prep Batch: 359451

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-139893-17	FB-3(AP)	Total Recoverable	Water	3005A	
400-139893-18	EB-3(AP)	Total Recoverable	Water	3005A	
400-139893-19	SGWC-7	Total Recoverable	Water	3005A	
400-139893-20	SGWC-6	Total Recoverable	Water	3005A	
400-139893-21	SGWA-25	Total Recoverable	Water	3005A	
400-139893-22	SGWC-17	Total Recoverable	Water	3005A	
400-139893-23	SGWC-11	Total Recoverable	Water	3005A	
400-139893-24	SGWC-8	Total Recoverable	Water	3005A	
400-139893-25	SGWC-12	Total Recoverable	Water	3005A	
400-139893-26	SGWC-9	Total Recoverable	Water	3005A	
400-139893-27	SGWC-13	Total Recoverable	Water	3005A	
400-139893-28	FD-2	Total Recoverable	Water	3005A	
400-139893-29	FB-2(AP)	Total Recoverable	Water	3005A	
400-139893-30	EB-2(AP)	Total Recoverable	Water	3005A	
400-139893-31	SGWC-10	Total Recoverable	Water	3005A	
400-139893-31 - RA	SGWC-10	Total Recoverable	Water	3005A	
400-139893-32	SGWC-14	Total Recoverable	Water	3005A	
400-139893-32 - RA	SGWC-14	Total Recoverable	Water	3005A	
400-139893-33	SGWC-15	Total Recoverable	Water	3005A	
400-139893-33 - RA	SGWC-15	Total Recoverable	Water	3005A	
400-139893-34	SGWC-16	Total Recoverable	Water	3005A	
400-139893-34 - RA	SGWC-16	Total Recoverable	Water	3005A	
MB 400-359451/1-A ^5	Method Blank	Total Recoverable	Water	3005A	
LCS 400-359451/2-A	Lab Control Sample	Total Recoverable	Water	3005A	
400-139893-19 MS	SGWC-7	Total Recoverable	Water	3005A	
400-139893-19 MSD	SGWC-7	Total Recoverable	Water	3005A	

Prep Batch: 359642

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-139893-1	SGWA-4	Total/NA	Water	7470A	
400-139893-2	EB-1(AP)	Total/NA	Water	7470A	
400-139893-3	SGWA-3	Total/NA	Water	7470A	
400-139893-4	SGWA-5	Total/NA	Water	7470A	
400-139893-5	FB-1(AP)	Total/NA	Water	7470A	
400-139893-6	SGWA-1	Total/NA	Water	7470A	
400-139893-7	FD-1(AP)	Total/NA	Water	7470A	
400-139893-8	SGWA-2	Total/NA	Water	7470A	
400-139893-9	SGWA-24	Total/NA	Water	7470A	
400-139893-10	SGWC-22	Total/NA	Water	7470A	
400-139893-11	SGWC-19	Total/NA	Water	7470A	
400-139893-12	SGWC-21	Total/NA	Water	7470A	
400-139893-13	SGWC-23	Total/NA	Water	7470A	
400-139893-14	SGWC-18	Total/NA	Water	7470A	
400-139893-15	SGWC-20	Total/NA	Water	7470A	
400-139893-16	FD-3(AP)	Total/NA	Water	7470A	

TestAmerica Pensacola

QC Association Summary

Client: Southern Company
 Project/Site: CCR - Plant Scherer

TestAmerica Job ID: 400-139893-1
 SDG: Ash Pond

Metals (Continued)

Prep Batch: 359642 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-139893-17	FB-3(AP)	Total/NA	Water	7470A	
400-139893-18	EB-3(AP)	Total/NA	Water	7470A	
400-139893-19	SGWC-7	Total/NA	Water	7470A	
400-139893-20	SGWC-6	Total/NA	Water	7470A	
MB 400-359642/14-A	Method Blank	Total/NA	Water	7470A	
LCS 400-359642/15-A	Lab Control Sample	Total/NA	Water	7470A	
400-139893-1 MS	SGWA-4	Total/NA	Water	7470A	
400-139893-1 MSD	SGWA-4	Total/NA	Water	7470A	

Prep Batch: 359800

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-139893-21	SGWA-25	Total/NA	Water	7470A	
400-139893-22	SGWC-17	Total/NA	Water	7470A	
400-139893-23	SGWC-11	Total/NA	Water	7470A	
400-139893-24	SGWC-8	Total/NA	Water	7470A	
400-139893-25	SGWC-12	Total/NA	Water	7470A	
400-139893-26	SGWC-9	Total/NA	Water	7470A	
400-139893-27	SGWC-13	Total/NA	Water	7470A	
400-139893-28	FD-2	Total/NA	Water	7470A	
400-139893-29	FB-2(AP)	Total/NA	Water	7470A	
400-139893-30	EB-2(AP)	Total/NA	Water	7470A	
400-139893-31	SGWC-10	Total/NA	Water	7470A	
400-139893-32	SGWC-14	Total/NA	Water	7470A	
400-139893-33	SGWC-15	Total/NA	Water	7470A	
400-139893-34	SGWC-16	Total/NA	Water	7470A	
MB 400-359800/14-A	Method Blank	Total/NA	Water	7470A	
LCS 400-359800/15-A	Lab Control Sample	Total/NA	Water	7470A	
400-140007-S-1-B MS	Matrix Spike	Total/NA	Water	7470A	
400-140007-S-1-C MSD	Matrix Spike Duplicate	Total/NA	Water	7470A	

Analysis Batch: 359826

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-139893-1	SGWA-4	Total Recoverable	Water	6020	359450
400-139893-2	EB-1(AP)	Total Recoverable	Water	6020	359450
400-139893-3	SGWA-3	Total Recoverable	Water	6020	359450
400-139893-4	SGWA-5	Total Recoverable	Water	6020	359450
400-139893-5	FB-1(AP)	Total Recoverable	Water	6020	359450
400-139893-6	SGWA-1	Total Recoverable	Water	6020	359450
400-139893-7	FD-1(AP)	Total Recoverable	Water	6020	359450
400-139893-8	SGWA-2	Total Recoverable	Water	6020	359450
400-139893-9	SGWA-24	Total Recoverable	Water	6020	359450
400-139893-10	SGWC-22	Total Recoverable	Water	6020	359450
400-139893-11	SGWC-19	Total Recoverable	Water	6020	359450
400-139893-11 - DL	SGWC-19	Total Recoverable	Water	6020	359450
400-139893-12	SGWC-21	Total Recoverable	Water	6020	359450
400-139893-13	SGWC-23	Total Recoverable	Water	6020	359450
400-139893-14	SGWC-18	Total Recoverable	Water	6020	359450
400-139893-14 - DL	SGWC-18	Total Recoverable	Water	6020	359450
400-139893-15	SGWC-20	Total Recoverable	Water	6020	359450
400-139893-15 - DL	SGWC-20	Total Recoverable	Water	6020	359450
400-139893-16	FD-3(AP)	Total Recoverable	Water	6020	359450

TestAmerica Pensacola

QC Association Summary

Client: Southern Company
Project/Site: CCR - Plant Scherer

TestAmerica Job ID: 400-139893-1
SDG: Ash Pond

Metals (Continued)

Analysis Batch: 359826 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-139893-17	FB-3(AP)	Total Recoverable	Water	6020	359451
400-139893-18	EB-3(AP)	Total Recoverable	Water	6020	359451
400-139893-19	SGWC-7	Total Recoverable	Water	6020	359451
400-139893-20	SGWC-6	Total Recoverable	Water	6020	359451
400-139893-21	SGWA-25	Total Recoverable	Water	6020	359451
400-139893-22	SGWC-17	Total Recoverable	Water	6020	359451
400-139893-23	SGWC-11	Total Recoverable	Water	6020	359451
400-139893-24	SGWC-8	Total Recoverable	Water	6020	359451
400-139893-25	SGWC-12	Total Recoverable	Water	6020	359451
400-139893-26	SGWC-9	Total Recoverable	Water	6020	359451
400-139893-27	SGWC-13	Total Recoverable	Water	6020	359451
400-139893-28	FD-2	Total Recoverable	Water	6020	359451
400-139893-29	FB-2(AP)	Total Recoverable	Water	6020	359451
400-139893-30	EB-2(AP)	Total Recoverable	Water	6020	359451
400-139893-31	SGWC-10	Total Recoverable	Water	6020	359451
400-139893-32	SGWC-14	Total Recoverable	Water	6020	359451
400-139893-33	SGWC-15	Total Recoverable	Water	6020	359451
400-139893-34	SGWC-16	Total Recoverable	Water	6020	359451
MB 400-359450/1-A ^5	Method Blank	Total Recoverable	Water	6020	359450
MB 400-359451/1-A ^5	Method Blank	Total Recoverable	Water	6020	359451
LCS 400-359450/2-A	Lab Control Sample	Total Recoverable	Water	6020	359450
LCS 400-359451/2-A	Lab Control Sample	Total Recoverable	Water	6020	359451
400-139877-A-1-B MS ^5	Matrix Spike	Total Recoverable	Water	6020	359450
400-139877-A-1-C MSD ^5	Matrix Spike Duplicate	Total Recoverable	Water	6020	359450
400-139893-19 MS	SGWC-7	Total Recoverable	Water	6020	359451
400-139893-19 MSD	SGWC-7	Total Recoverable	Water	6020	359451

Analysis Batch: 359923

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-139893-1	SGWA-4	Total/NA	Water	7470A	359642
400-139893-2	EB-1(AP)	Total/NA	Water	7470A	359642
400-139893-3	SGWA-3	Total/NA	Water	7470A	359642
400-139893-4	SGWA-5	Total/NA	Water	7470A	359642
400-139893-5	FB-1(AP)	Total/NA	Water	7470A	359642
400-139893-6	SGWA-1	Total/NA	Water	7470A	359642
400-139893-7	FD-1(AP)	Total/NA	Water	7470A	359642
400-139893-8	SGWA-2	Total/NA	Water	7470A	359642
400-139893-9	SGWA-24	Total/NA	Water	7470A	359642
400-139893-10	SGWC-22	Total/NA	Water	7470A	359642
400-139893-11	SGWC-19	Total/NA	Water	7470A	359642
400-139893-12	SGWC-21	Total/NA	Water	7470A	359642
400-139893-13	SGWC-23	Total/NA	Water	7470A	359642
400-139893-14	SGWC-18	Total/NA	Water	7470A	359642
400-139893-15	SGWC-20	Total/NA	Water	7470A	359642
400-139893-16	FD-3(AP)	Total/NA	Water	7470A	359642
400-139893-17	FB-3(AP)	Total/NA	Water	7470A	359642
400-139893-18	EB-3(AP)	Total/NA	Water	7470A	359642
400-139893-19	SGWC-7	Total/NA	Water	7470A	359642
400-139893-20	SGWC-6	Total/NA	Water	7470A	359642
400-139893-21	SGWA-25	Total/NA	Water	7470A	359800
400-139893-22	SGWC-17	Total/NA	Water	7470A	359800

TestAmerica Pensacola

QC Association Summary

Client: Southern Company
Project/Site: CCR - Plant Scherer

TestAmerica Job ID: 400-139893-1
SDG: Ash Pond

Metals (Continued)

Analysis Batch: 359923 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-139893-23	SGWC-11	Total/NA	Water	7470A	359800
400-139893-24	SGWC-8	Total/NA	Water	7470A	359800
400-139893-25	SGWC-12	Total/NA	Water	7470A	359800
400-139893-26	SGWC-9	Total/NA	Water	7470A	359800
400-139893-27	SGWC-13	Total/NA	Water	7470A	359800
400-139893-28	FD-2	Total/NA	Water	7470A	359800
400-139893-29	FB-2(AP)	Total/NA	Water	7470A	359800
400-139893-30	EB-2(AP)	Total/NA	Water	7470A	359800
400-139893-31	SGWC-10	Total/NA	Water	7470A	359800
400-139893-32	SGWC-14	Total/NA	Water	7470A	359800
400-139893-33	SGWC-15	Total/NA	Water	7470A	359800
400-139893-34	SGWC-16	Total/NA	Water	7470A	359800
MB 400-359642/14-A	Method Blank	Total/NA	Water	7470A	359642
MB 400-359800/14-A	Method Blank	Total/NA	Water	7470A	359800
LCS 400-359642/15-A	Lab Control Sample	Total/NA	Water	7470A	359642
LCS 400-359800/15-A	Lab Control Sample	Total/NA	Water	7470A	359800
400-139893-1 MS	SGWA-4	Total/NA	Water	7470A	359642
400-139893-1 MSD	SGWA-4	Total/NA	Water	7470A	359642
400-140007-S-1-B MS	Matrix Spike	Total/NA	Water	7470A	359800
400-140007-S-1-C MSD	Matrix Spike Duplicate	Total/NA	Water	7470A	359800

Analysis Batch: 360021

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-139893-31 - RA	SGWC-10	Total Recoverable	Water	6020	359451
400-139893-32 - RA	SGWC-14	Total Recoverable	Water	6020	359451
400-139893-33 - RA	SGWC-15	Total Recoverable	Water	6020	359451
400-139893-34 - RA	SGWC-16	Total Recoverable	Water	6020	359451

General Chemistry

Analysis Batch: 358873

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-139893-1	SGWA-4	Total/NA	Water	SM 2540C	
400-139893-2	EB-1(AP)	Total/NA	Water	SM 2540C	
400-139893-3	SGWA-3	Total/NA	Water	SM 2540C	
400-139893-4	SGWA-5	Total/NA	Water	SM 2540C	
400-139893-5	FB-1(AP)	Total/NA	Water	SM 2540C	
400-139893-6	SGWA-1	Total/NA	Water	SM 2540C	
400-139893-7	FD-1(AP)	Total/NA	Water	SM 2540C	
400-139893-8	SGWA-2	Total/NA	Water	SM 2540C	
400-139893-9	SGWA-24	Total/NA	Water	SM 2540C	
MB 400-358873/1	Method Blank	Total/NA	Water	SM 2540C	
LCS 400-358873/2	Lab Control Sample	Total/NA	Water	SM 2540C	
400-139893-3 DU	SGWA-3	Total/NA	Water	SM 2540C	

Analysis Batch: 359125

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-139893-16	FD-3(AP)	Total/NA	Water	SM 2540C	
400-139893-19	SGWC-7	Total/NA	Water	SM 2540C	
400-139893-20	SGWC-6	Total/NA	Water	SM 2540C	

TestAmerica Pensacola

QC Association Summary

Client: Southern Company
Project/Site: CCR - Plant Scherer

TestAmerica Job ID: 400-139893-1
SDG: Ash Pond

General Chemistry (Continued)

Analysis Batch: 359125 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-139893-21	SGWA-25	Total/NA	Water	SM 2540C	
400-139893-22	SGWC-17	Total/NA	Water	SM 2540C	
400-139893-23	SGWC-11	Total/NA	Water	SM 2540C	
400-139893-24	SGWC-8	Total/NA	Water	SM 2540C	
400-139893-25	SGWC-12	Total/NA	Water	SM 2540C	
400-139893-26	SGWC-9	Total/NA	Water	SM 2540C	
400-139893-27	SGWC-13	Total/NA	Water	SM 2540C	
400-139893-28	FD-2	Total/NA	Water	SM 2540C	
400-139893-29	FB-2(AP)	Total/NA	Water	SM 2540C	
400-139893-30	EB-2(AP)	Total/NA	Water	SM 2540C	
400-139893-31	SGWC-10	Total/NA	Water	SM 2540C	
400-139893-32	SGWC-14	Total/NA	Water	SM 2540C	
400-139893-33	SGWC-15	Total/NA	Water	SM 2540C	
400-139893-34	SGWC-16	Total/NA	Water	SM 2540C	
MB 400-359125/1	Method Blank	Total/NA	Water	SM 2540C	
LCS 400-359125/2	Lab Control Sample	Total/NA	Water	SM 2540C	
400-139893-25 DU	SGWC-12	Total/NA	Water	SM 2540C	

Analysis Batch: 359163

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-139893-10	SGWC-22	Total/NA	Water	SM 2540C	
400-139893-11	SGWC-19	Total/NA	Water	SM 2540C	
400-139893-12	SGWC-21	Total/NA	Water	SM 2540C	
400-139893-13	SGWC-23	Total/NA	Water	SM 2540C	
400-139893-14	SGWC-18	Total/NA	Water	SM 2540C	
400-139893-15	SGWC-20	Total/NA	Water	SM 2540C	
400-139893-17	FB-3(AP)	Total/NA	Water	SM 2540C	
400-139893-18	EB-3(AP)	Total/NA	Water	SM 2540C	
MB 400-359163/1	Method Blank	Total/NA	Water	SM 2540C	
LCS 400-359163/2	Lab Control Sample	Total/NA	Water	SM 2540C	
400-139893-10 DU	SGWC-22	Total/NA	Water	SM 2540C	
400-139893-14 DU	SGWC-18	Total/NA	Water	SM 2540C	

QC Sample Results

Client: Southern Company
Project/Site: CCR - Plant Scherer

TestAmerica Job ID: 400-139893-1
SDG: Ash Pond

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 400-359035/4
Matrix: Water
Analysis Batch: 359035

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<0.89		1.0	0.89	mg/L			06/30/17 11:32	1
Fluoride	<0.082		0.20	0.082	mg/L			06/30/17 11:32	1
Sulfate	<0.70		1.0	0.70	mg/L			06/30/17 11:32	1

Lab Sample ID: LCS 400-359035/5
Matrix: Water
Analysis Batch: 359035

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloride	10.0	10.1		mg/L		101	90 - 110
Fluoride	10.0	10.7		mg/L		107	90 - 110
Sulfate	10.0	10.7		mg/L		107	90 - 110

Lab Sample ID: LCSD 400-359035/6
Matrix: Water
Analysis Batch: 359035

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
Chloride	10.0	10.1		mg/L		101	90 - 110	0	15
Fluoride	10.0	10.7		mg/L		107	90 - 110	0	15
Sulfate	10.0	10.8		mg/L		108	90 - 110	1	15

Lab Sample ID: 400-139715-A-6 MS
Matrix: Water
Analysis Batch: 359035

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	<4.5		50.0	52.8		mg/L		106	80 - 120
Fluoride	<0.41		50.0	52.7		mg/L		105	80 - 120
Sulfate	75		50.0	126		mg/L		102	80 - 120

Lab Sample ID: 400-139715-A-6 MSD
Matrix: Water
Analysis Batch: 359035

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	<4.5		50.0	52.9		mg/L		106	80 - 120	0	20
Fluoride	<0.41		50.0	52.5		mg/L		105	80 - 120	0	20
Sulfate	75		50.0	126		mg/L		102	80 - 120	0	20

Lab Sample ID: MB 400-359201/4
Matrix: Water
Analysis Batch: 359201

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<0.89		1.0	0.89	mg/L			07/01/17 20:57	1
Fluoride	<0.082		0.20	0.082	mg/L			07/01/17 20:57	1
Sulfate	<0.70		1.0	0.70	mg/L			07/01/17 20:57	1

TestAmerica Pensacola

QC Sample Results

Client: Southern Company
Project/Site: CCR - Plant Scherer

TestAmerica Job ID: 400-139893-1
SDG: Ash Pond

Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: LCS 400-359201/5
Matrix: Water
Analysis Batch: 359201

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloride	10.0	10.2		mg/L		102	90 - 110
Fluoride	10.0	10.7		mg/L		107	90 - 110
Sulfate	10.0	10.7		mg/L		107	90 - 110

Lab Sample ID: LCSD 400-359201/6
Matrix: Water
Analysis Batch: 359201

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
Chloride	10.0	10.3		mg/L		103	90 - 110	0	15
Fluoride	10.0	10.7		mg/L		107	90 - 110	0	15
Sulfate	10.0	10.8		mg/L		108	90 - 110	1	15

Lab Sample ID: 400-139893-12 MS
Matrix: Water
Analysis Batch: 359201

Client Sample ID: SGWC-21
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloride	8.1		10.0	17.8		mg/L		96	80 - 120
Fluoride	0.10	J	10.0	10.5		mg/L		104	80 - 120
Sulfate	75	E	10.0	85.4	E 4	mg/L		99	80 - 120

Lab Sample ID: 400-139893-12 MSD
Matrix: Water
Analysis Batch: 359201

Client Sample ID: SGWC-21
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Chloride	8.1		10.0	17.8		mg/L		97	80 - 120	0	20
Fluoride	0.10	J	10.0	10.5		mg/L		104	80 - 120	0	20
Sulfate	75	E	10.0	85.9	E 4	mg/L		105	80 - 120	1	20

Lab Sample ID: MB 400-359244/8
Matrix: Water
Analysis Batch: 359244

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<0.89		1.0	0.89	mg/L			07/03/17 13:40	1
Fluoride	<0.082		0.20	0.082	mg/L			07/03/17 13:40	1
Sulfate	<0.70		1.0	0.70	mg/L			07/03/17 13:40	1

Lab Sample ID: LCS 400-359244/9
Matrix: Water
Analysis Batch: 359244

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloride	10.0	10.0		mg/L		100	90 - 110
Fluoride	10.0	10.6		mg/L		106	90 - 110
Sulfate	10.0	10.6		mg/L		106	90 - 110

TestAmerica Pensacola

QC Sample Results

Client: Southern Company
Project/Site: CCR - Plant Scherer

TestAmerica Job ID: 400-139893-1
SDG: Ash Pond

Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: LCSD 400-359244/10
Matrix: Water
Analysis Batch: 359244

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
Chloride	10.0	10.0		mg/L		100	90 - 110	0	15
Fluoride	10.0	10.5		mg/L		105	90 - 110	0	15
Sulfate	10.0	10.6		mg/L		106	90 - 110	0	15

Lab Sample ID: 400-139746-A-17 MS
Matrix: Water
Analysis Batch: 359244

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	RPD	RPD Limit
Chloride	10		50.0	59.3		mg/L		98	80 - 120		
Fluoride	<0.41		50.0	53.4		mg/L		107	80 - 120		
Sulfate	160		50.0	207		mg/L		97	80 - 120		

Lab Sample ID: 400-139746-A-17 MSD
Matrix: Water
Analysis Batch: 359244

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	10		50.0	59.5		mg/L		99	80 - 120	0	20
Fluoride	<0.41		50.0	53.0		mg/L		106	80 - 120	1	20
Sulfate	160		50.0	207		mg/L		98	80 - 120	0	20

Lab Sample ID: MB 400-359417/7
Matrix: Water
Analysis Batch: 359417

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<0.89		1.0	0.89	mg/L			07/05/17 14:31	1
Fluoride	<0.082		0.20	0.082	mg/L			07/05/17 14:31	1
Sulfate	<0.70		1.0	0.70	mg/L			07/05/17 14:31	1

Lab Sample ID: LCS 400-359417/8
Matrix: Water
Analysis Batch: 359417

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Chloride	10.0	10.3		mg/L		103	90 - 110		
Fluoride	10.0	10.6		mg/L		106	90 - 110		
Sulfate	10.0	10.7		mg/L		107	90 - 110		

Lab Sample ID: LCSD 400-359417/9
Matrix: Water
Analysis Batch: 359417

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
Chloride	10.0	10.3		mg/L		103	90 - 110	0	15
Fluoride	10.0	10.7		mg/L		107	90 - 110	1	15
Sulfate	10.0	10.8		mg/L		108	90 - 110	1	15

TestAmerica Pensacola

QC Sample Results

Client: Southern Company
Project/Site: CCR - Plant Scherer

TestAmerica Job ID: 400-139893-1
SDG: Ash Pond

Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: 400-140001-A-2 MS

Matrix: Water

Analysis Batch: 359417

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	5000		2000	6910		mg/L		94	80 - 120
Fluoride	<16		2000	2130		mg/L		106	80 - 120
Sulfate	<140		2000	2250		mg/L		112	80 - 120

Lab Sample ID: 400-140001-A-2 MSD

Matrix: Water

Analysis Batch: 359417

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	5000		2000	6910		mg/L		94	80 - 120	0	20
Fluoride	<16		2000	2130		mg/L		106	80 - 120	0	20
Sulfate	<140		2000	2260		mg/L		113	80 - 120	1	20

Method: 6020 - Metals (ICP/MS)

Lab Sample ID: MB 400-359450/1-A ^5

Matrix: Water

Analysis Batch: 359826

Client Sample ID: Method Blank

Prep Type: Total Recoverable

Prep Batch: 359450

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0010		0.0025	0.0010	mg/L		07/05/17 16:06	07/06/17 12:21	5
Arsenic	<0.00046		0.0013	0.00046	mg/L		07/05/17 16:06	07/06/17 12:21	5
Barium	<0.00049		0.0025	0.00049	mg/L		07/05/17 16:06	07/06/17 12:21	5
Beryllium	<0.00034		0.0025	0.00034	mg/L		07/05/17 16:06	07/06/17 12:21	5
Boron	<0.021		0.050	0.021	mg/L		07/05/17 16:06	07/06/17 12:21	5
Cadmium	<0.00034		0.0025	0.00034	mg/L		07/05/17 16:06	07/06/17 12:21	5
Calcium	<0.13		0.25	0.13	mg/L		07/05/17 16:06	07/06/17 12:21	5
Chromium	<0.0011		0.0025	0.0011	mg/L		07/05/17 16:06	07/06/17 12:21	5
Cobalt	<0.00040		0.0025	0.00040	mg/L		07/05/17 16:06	07/06/17 12:21	5
Lead	<0.00035		0.0013	0.00035	mg/L		07/05/17 16:06	07/06/17 12:21	5
Lithium	<0.0032		0.0050	0.0032	mg/L		07/05/17 16:06	07/06/17 12:21	5
Molybdenum	<0.00085		0.015	0.00085	mg/L		07/05/17 16:06	07/06/17 12:21	5
Selenium	<0.00024		0.0013	0.00024	mg/L		07/05/17 16:06	07/06/17 12:21	5
Thallium	<0.000085		0.00050	0.000085	mg/L		07/05/17 16:06	07/06/17 12:21	5

Lab Sample ID: LCS 400-359450/2-A

Matrix: Water

Analysis Batch: 359826

Client Sample ID: Lab Control Sample

Prep Type: Total Recoverable

Prep Batch: 359450

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Antimony	0.0500	0.0559		mg/L		112	80 - 120
Arsenic	0.0500	0.0516		mg/L		103	80 - 120
Barium	0.0500	0.0542		mg/L		108	80 - 120
Beryllium	0.0500	0.0523		mg/L		105	80 - 120
Boron	0.100	0.0953		mg/L		95	80 - 120
Cadmium	0.0500	0.0525		mg/L		105	80 - 120
Calcium	5.00	4.84		mg/L		97	80 - 120
Chromium	0.0500	0.0537		mg/L		107	80 - 120

TestAmerica Pensacola

QC Sample Results

Client: Southern Company
Project/Site: CCR - Plant Scherer

TestAmerica Job ID: 400-139893-1
SDG: Ash Pond

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

Lab Sample ID: LCS 400-359450/2-A
Matrix: Water
Analysis Batch: 359826

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 359450

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec.	
							Limits	
Cobalt	0.0500	0.0538		mg/L		108	80 - 120	
Lead	0.0500	0.0527		mg/L		105	80 - 120	
Lithium	0.0500	0.0509		mg/L		102	80 - 120	
Molybdenum	0.100	0.106		mg/L		106	80 - 120	
Selenium	0.0500	0.0524		mg/L		105	80 - 120	
Thallium	0.0100	0.0104		mg/L		104	80 - 120	

Lab Sample ID: 400-139877-A-1-B MS ^5
Matrix: Water
Analysis Batch: 359826

Client Sample ID: Matrix Spike
Prep Type: Total Recoverable
Prep Batch: 359450

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec.	
									Limits	
Antimony	<0.0010		0.0500	0.0571		mg/L		114	75 - 125	
Arsenic	0.00070	J	0.0500	0.0526		mg/L		104	75 - 125	
Barium	0.039		0.0500	0.0929		mg/L		107	75 - 125	
Beryllium	<0.00034		0.0500	0.0529		mg/L		106	75 - 125	
Boron	<0.021		0.100	0.0943		mg/L		94	75 - 125	
Cadmium	<0.00034		0.0500	0.0514		mg/L		103	75 - 125	
Calcium	1.7		5.00	6.59		mg/L		98	75 - 125	
Chromium	<0.0011		0.0500	0.0539		mg/L		108	75 - 125	
Cobalt	0.0017	J	0.0500	0.0560		mg/L		109	75 - 125	
Lead	0.00066	J	0.0500	0.0544		mg/L		108	75 - 125	
Lithium	<0.0032		0.0500	0.0466		mg/L		93	75 - 125	
Molybdenum	<0.00085		0.100	0.106		mg/L		106	75 - 125	
Selenium	<0.00024		0.0500	0.0564		mg/L		113	75 - 125	
Thallium	<0.00085		0.0100	0.0106		mg/L		106	75 - 125	

Lab Sample ID: 400-139877-A-1-C MSD ^5
Matrix: Water
Analysis Batch: 359826

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total Recoverable
Prep Batch: 359450

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec.		RPD	Limit
									Limits			
Antimony	<0.0010		0.0500	0.0557		mg/L		111	75 - 125	3	20	
Arsenic	0.00070	J	0.0500	0.0524		mg/L		103	75 - 125	0	20	
Barium	0.039		0.0500	0.0927		mg/L		107	75 - 125	0	20	
Beryllium	<0.00034		0.0500	0.0511		mg/L		102	75 - 125	3	20	
Boron	<0.021		0.100	0.0888		mg/L		89	75 - 125	6	20	
Cadmium	<0.00034		0.0500	0.0514		mg/L		103	75 - 125	0	20	
Calcium	1.7		5.00	6.51		mg/L		96	75 - 125	1	20	
Chromium	<0.0011		0.0500	0.0532		mg/L		106	75 - 125	1	20	
Cobalt	0.0017	J	0.0500	0.0556		mg/L		108	75 - 125	1	20	
Lead	0.00066	J	0.0500	0.0543		mg/L		107	75 - 125	0	20	
Lithium	<0.0032		0.0500	0.0454		mg/L		91	75 - 125	3	20	
Molybdenum	<0.00085		0.100	0.104		mg/L		104	75 - 125	2	20	
Selenium	<0.00024		0.0500	0.0530		mg/L		106	75 - 125	6	20	
Thallium	<0.00085		0.0100	0.0108		mg/L		108	75 - 125	1	20	

TestAmerica Pensacola

QC Sample Results

Client: Southern Company
Project/Site: CCR - Plant Scherer

TestAmerica Job ID: 400-139893-1
SDG: Ash Pond

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

Lab Sample ID: MB 400-359451/1-A ^5
Matrix: Water
Analysis Batch: 359826

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 359451

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0010		0.0025	0.0010	mg/L		07/05/17 16:10	07/06/17 18:00	5
Arsenic	<0.00046		0.0013	0.00046	mg/L		07/05/17 16:10	07/06/17 18:00	5
Barium	<0.00049		0.0025	0.00049	mg/L		07/05/17 16:10	07/06/17 18:00	5
Beryllium	<0.00034		0.0025	0.00034	mg/L		07/05/17 16:10	07/06/17 18:00	5
Boron	<0.021		0.050	0.021	mg/L		07/05/17 16:10	07/06/17 18:00	5
Cadmium	<0.00034		0.0025	0.00034	mg/L		07/05/17 16:10	07/06/17 18:00	5
Calcium	<0.13		0.25	0.13	mg/L		07/05/17 16:10	07/06/17 18:00	5
Chromium	<0.0011		0.0025	0.0011	mg/L		07/05/17 16:10	07/06/17 18:00	5
Cobalt	<0.00040		0.0025	0.00040	mg/L		07/05/17 16:10	07/06/17 18:00	5
Lead	<0.00035		0.0013	0.00035	mg/L		07/05/17 16:10	07/06/17 18:00	5
Lithium	<0.0032		0.0050	0.0032	mg/L		07/05/17 16:10	07/06/17 18:00	5
Molybdenum	<0.00085		0.015	0.00085	mg/L		07/05/17 16:10	07/06/17 18:00	5
Selenium	<0.00024		0.0013	0.00024	mg/L		07/05/17 16:10	07/06/17 18:00	5
Thallium	<0.000085		0.00050	0.000085	mg/L		07/05/17 16:10	07/06/17 18:00	5

Lab Sample ID: LCS 400-359451/2-A
Matrix: Water
Analysis Batch: 359826

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 359451

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Antimony	0.0500	0.0577		mg/L		115	80 - 120
Arsenic	0.0500	0.0524		mg/L		105	80 - 120
Barium	0.0500	0.0551		mg/L		110	80 - 120
Beryllium	0.0500	0.0525		mg/L		105	80 - 120
Boron	0.100	0.0978		mg/L		98	80 - 120
Cadmium	0.0500	0.0529		mg/L		106	80 - 120
Calcium	5.00	4.93		mg/L		99	80 - 120
Chromium	0.0500	0.0546		mg/L		109	80 - 120
Cobalt	0.0500	0.0548		mg/L		110	80 - 120
Lead	0.0500	0.0542		mg/L		108	80 - 120
Lithium	0.0500	0.0523		mg/L		105	80 - 120
Molybdenum	0.100	0.109		mg/L		109	80 - 120
Selenium	0.0500	0.0540		mg/L		108	80 - 120
Thallium	0.0100	0.0108		mg/L		108	80 - 120

Lab Sample ID: 400-139893-19 MS
Matrix: Water
Analysis Batch: 359826

Client Sample ID: SGWC-7
Prep Type: Total Recoverable
Prep Batch: 359451

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Antimony	<0.0010		0.0500	0.0599		mg/L		120	75 - 125
Arsenic	<0.00046		0.0500	0.0525		mg/L		105	75 - 125
Barium	0.36		0.0500	0.419	4	mg/L		110	75 - 125
Beryllium	<0.00034		0.0500	0.0528		mg/L		106	75 - 125
Boron	0.028	J	0.100	0.131		mg/L		103	75 - 125
Cadmium	<0.00034		0.0500	0.0527		mg/L		105	75 - 125
Calcium	23		5.00	27.9	4	mg/L		94	75 - 125
Chromium	<0.0011		0.0500	0.0550		mg/L		110	75 - 125

TestAmerica Pensacola

QC Sample Results

Client: Southern Company
Project/Site: CCR - Plant Scherer

TestAmerica Job ID: 400-139893-1
SDG: Ash Pond

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

Lab Sample ID: 400-139893-19 MS
Matrix: Water
Analysis Batch: 359826

Client Sample ID: SGWC-7
Prep Type: Total Recoverable
Prep Batch: 359451

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	Limits
Cobalt	0.021		0.0500	0.0762		mg/L		110	75 - 125
Lead	<0.00035		0.0500	0.0537		mg/L		107	75 - 125
Lithium	0.0033	J	0.0500	0.0499		mg/L		93	75 - 125
Molybdenum	0.0021	J	0.100	0.113		mg/L		111	75 - 125
Selenium	<0.00024		0.0500	0.0585		mg/L		117	75 - 125
Thallium	<0.000085		0.0100	0.0108		mg/L		108	75 - 125

Lab Sample ID: 400-139893-19 MSD
Matrix: Water
Analysis Batch: 359826

Client Sample ID: SGWC-7
Prep Type: Total Recoverable
Prep Batch: 359451

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Antimony	<0.0010		0.0500	0.0585		mg/L		117	75 - 125	2	20
Arsenic	<0.00046		0.0500	0.0517		mg/L		103	75 - 125	2	20
Barium	0.36		0.0500	0.420	4	mg/L		111	75 - 125	0	20
Beryllium	<0.00034		0.0500	0.0535		mg/L		107	75 - 125	1	20
Boron	0.028	J	0.100	0.132		mg/L		104	75 - 125	1	20
Cadmium	<0.00034		0.0500	0.0526		mg/L		105	75 - 125	0	20
Calcium	23		5.00	27.5	4	mg/L		87	75 - 125	1	20
Chromium	<0.0011		0.0500	0.0539		mg/L		108	75 - 125	2	20
Cobalt	0.021		0.0500	0.0747		mg/L		107	75 - 125	2	20
Lead	<0.00035		0.0500	0.0527		mg/L		105	75 - 125	2	20
Lithium	0.0033	J	0.0500	0.0485		mg/L		90	75 - 125	3	20
Molybdenum	0.0021	J	0.100	0.111		mg/L		109	75 - 125	2	20
Selenium	<0.00024		0.0500	0.0560		mg/L		112	75 - 125	4	20
Thallium	<0.000085		0.0100	0.0106		mg/L		106	75 - 125	3	20

Method: 7470A - Mercury (CVAA)

Lab Sample ID: MB 400-359642/14-A
Matrix: Water
Analysis Batch: 359923

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 359642

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.000070		0.00020	0.000070	mg/L		07/08/17 13:06	07/10/17 11:34	1

Lab Sample ID: LCS 400-359642/15-A
Matrix: Water
Analysis Batch: 359923

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 359642

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	Limits
Mercury	0.00101	0.000964		mg/L		96	80 - 120

Lab Sample ID: 400-139893-1 MS
Matrix: Water
Analysis Batch: 359923

Client Sample ID: SGWA-4
Prep Type: Total/NA
Prep Batch: 359642

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	Limits
Mercury	<0.000070		0.00201	0.00196		mg/L		97	80 - 120

TestAmerica Pensacola

QC Sample Results

Client: Southern Company
Project/Site: CCR - Plant Scherer

TestAmerica Job ID: 400-139893-1
SDG: Ash Pond

Lab Sample ID: 400-139893-1 MSD
Matrix: Water
Analysis Batch: 359923

Client Sample ID: SGWA-4
Prep Type: Total/NA
Prep Batch: 359642

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Mercury	<0.000070		0.00201	0.00197		mg/L		98	80 - 120	0	20

Lab Sample ID: MB 400-359800/14-A
Matrix: Water
Analysis Batch: 359923

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 359800

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.000070		0.00020	0.000070	mg/L		07/09/17 09:49	07/10/17 12:34	1

Lab Sample ID: LCS 400-359800/15-A
Matrix: Water
Analysis Batch: 359923

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 359800

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Mercury	0.00101	0.000974		mg/L		97	80 - 120

Lab Sample ID: 400-140007-S-1-B MS
Matrix: Water
Analysis Batch: 359923

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 359800

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Mercury	<0.000070		0.00201	0.00183		mg/L		91	80 - 120

Lab Sample ID: 400-140007-S-1-C MSD
Matrix: Water
Analysis Batch: 359923

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA
Prep Batch: 359800

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Mercury	<0.000070		0.00201	0.00193		mg/L		96	80 - 120	5	20

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

Lab Sample ID: MB 400-358873/1
Matrix: Water
Analysis Batch: 358873

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	<3.4		5.0	3.4	mg/L			06/29/17 16:16	1

Lab Sample ID: LCS 400-358873/2
Matrix: Water
Analysis Batch: 358873

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	294		mg/L		100	78 - 122

Lab Sample ID: 400-139893-3 DU
Matrix: Water
Analysis Batch: 358873

Client Sample ID: SGWA-3
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Total Dissolved Solids	64		64.0		mg/L		0	5

TestAmerica Pensacola

QC Sample Results

Client: Southern Company
Project/Site: CCR - Plant Scherer

TestAmerica Job ID: 400-139893-1
SDG: Ash Pond

Lab Sample ID: MB 400-359125/1
Matrix: Water
Analysis Batch: 359125

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	<3.4		5.0	3.4	mg/L			07/01/17 13:26	1

Lab Sample ID: LCS 400-359125/2
Matrix: Water
Analysis Batch: 359125

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	270		mg/L		92	78 - 122

Lab Sample ID: 400-139893-25 DU
Matrix: Water
Analysis Batch: 359125

Client Sample ID: SGWC-12
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Total Dissolved Solids	200		200		mg/L		1	5

Lab Sample ID: MB 400-359163/1
Matrix: Water
Analysis Batch: 359163

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	<3.4		5.0	3.4	mg/L			07/02/17 13:14	1

Lab Sample ID: LCS 400-359163/2
Matrix: Water
Analysis Batch: 359163

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	262		mg/L		89	78 - 122

Lab Sample ID: 400-139893-10 DU
Matrix: Water
Analysis Batch: 359163

Client Sample ID: SGWC-22
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Total Dissolved Solids	190		190		mg/L		0	5

Lab Sample ID: 400-139893-14 DU
Matrix: Water
Analysis Batch: 359163

Client Sample ID: SGWC-18
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Total Dissolved Solids	540		544		mg/L		0.4	5

Chain of Custody Record

Client Information		Lab PM: Whitmire, Cheyenne R		Carrier Tracking No(s):	
3355 McClamore Drive Pensacola, FL 32514 Phone (850) 474-1001 Fax (850) 478-2671		Ben Hodges Phone:		400-57303-24780	
Client Contact: Joju Abraham		E-Mail: cheyenne.whitmire@testamericainc.com		Pages: 1 of 1	
Company: Southern Company		Job #:		COC No.:	
Address: 241 Ralph McGill Blvd SE B10185		Due Date Requested:		400-139893 COC	
City: Atlanta		TAT Requested (days):		Total Number of Containers	
State, Zip: GA, 30308		PO #:		Preservation Codes:	
Phone:		WO #:		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 Other:	
Email: JAbraham@southernco.com		Project #: 40007041		M - Hexane N - None O - AsNO2 P - Na2OAS Q - Na2SO3 R - Na2S2O3 S - H2SO4 T - TSP Dodecahydrate U - Acetone V - MCAA W - ph 4-5 X - EDTA Z - other (Specify)	
Site: Ash Pond		SOW#:		Special Instructions/Note:	
Sample Identification		Field Filtered Sample (Yes or No)		Perform MS/MSD (Yes or No)	
Sample ID	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (Water, Soil, Sediment, Air, etc)	Preservation Code
SGWA-4	6/24/17	1430	G	Water	N
EB-1(AP)	6/24/17	1530	G	Water	N
SGWA-3	6/24/17	1255	G	Water	N
SGWA-5	6/24/17	1025	G	Water	N
FB-1(AP)	6/24/17	1000	G	Water	N
SGWA-1	6/24/17	1350	G	Water	N
FD-1(AP)	6/24/17	--	G	Water	N
SGWA-2	6/24/17	1530	G	Water	N
SGWA-24	6/24/17	1455	G	Water	N
Possible Hazard Identification <input type="checkbox"/> Non-Hazard <input type="checkbox"/> Flammable <input type="checkbox"/> Skin Irritant <input type="checkbox"/> Poison B <input type="checkbox"/> Unknown <input type="checkbox"/> Radiological Deliverable Requested: I, II, III, IV, Other (specify)		Sample Disposal (A fee may be assessed if samples are retained longer than 1 month) <input type="checkbox"/> Return To Client <input type="checkbox"/> Disposal By Lab <input type="checkbox"/> Archive For _____ Months		Special Instructions/QC Requirements:	
Empty Kit Relinquished by:		Date:		Method of Shipment:	
Relinquished by: Ben Hodges		6/22/17 0800		Company: Golden	
Relinquished by: F E 100		6/27/17 1000		Company: NOW	
Relinquished by: JTB		6/27/17 1600		Company: NOW	
Custody Seals Intact: <input type="checkbox"/> Yes <input type="checkbox"/> No		Custody Seal No.:		Cooler Temperature: °C and Other Remarks:	



Client Information		Lab FM: Whitmire, Cheyenne R		Carrier Tracking No(s):		COC No: 400-57303-24790	
Client Contact: Ben Hodges		E-Mail: cheyenne.whitmire@testamericainc.com		Job #:		Page: 1 of 1	
Company: Southern Company		Due Date Requested:		Analysis Requested		Preservation Codes:	
Address: 241 Ralph McGill Blvd SE B10185		TAT Requested (days):				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 Other:	
City: Atlanta		PO #:		Form MS/MSD (Yes or No)		Total Number of Containers	
State, Zip: GA, 30308		WC #:		Field Filtered Sample (Yes or No)		Special Instructions/Note:	
Phone:		Project #: 40007041		Perform MS/MSD (Yes or No)		400-138893 COC	
Email: JAbraham@southernco.com		SSOW#:		Matrix (Water, Brackish, Sewage, Other)		9315_Ra226, 9320_Ra228, Ra226Ra228_GFPc	
Project Name: CCR - Scheler		Sample Date		Sample Time		Sample Type (C=Comp, G=Grab)	
Site: Ash Pond		Sample Date		Sample Time		Preservation Code	
Sample Identification		Sample Date		Sample Time		Matrix	
SGWC-22		6/28/17		0915		Water	
SGWC-19		6/28/17		0910		Water	
SGWC-21		6/28/17		0935		Water	
SGWC-23		6/28/17		1035		Water	
SGWC-18		6/28/17		1015		Water	
SGWC-20		6/28/17		1105		Water	
FB-3(AP)		6/28/17		-		Water	
FB-3(AP)		6/28/17		0840		Water	
EB-3(AP)		6/28/17		1100		Water	
Possible Hazard Identification		Sample Date		Sample Time		Matrix	
<input type="checkbox"/> Non-Hazard <input type="checkbox"/> Flammable <input type="checkbox"/> Skin Irritant <input type="checkbox"/> Poison B <input type="checkbox"/> Unknown <input type="checkbox"/> Radiological		Sample Date		Sample Time		Matrix	
Deliverable Requested: I, II, III, IV, Other (specify)		Sample Date		Sample Time		Matrix	
Empty Kit Relinquished by:		Date/Time:		Date/Time:		Date/Time:	
Relinquished by: Ben Hodges		6/28/17 1520		6/28/17 1520		6/28/17 1520	
Relinquished by: Daniela Valera		6/28/17 1620		6/28/17 1620		6/28/17 1620	
Relinquished by:		Date/Time:		Date/Time:		Date/Time:	
Custody Seals Intact: <input type="checkbox"/> Yes <input type="checkbox"/> No		Custody Seal No.:		Cooler Temperature (g, 5, and other):		Remarks:	
Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)		Return To Client <input type="checkbox"/> Disposal By Lab <input type="checkbox"/> Archive For <input type="checkbox"/> Months		Special Instructions/QC Requirements:		Method of Shipment:	
Date/Time:		Date/Time:		Date/Time:		Date/Time:	



Chain of Custody Record

Client Information		Lab P/L		Carrier Tracking Not(s)	
Southern Company		Whitmore, Cheyenne R		400-57303-24780	
Address: 241 Ralph McGill Blvd SE B10185		E-Mail: cheyenne.whitmore@testamericainc.com		Page: 1 of 2	
City: Atlanta		Lab P/L: Whitmore, Cheyenne R		Job #:	
State, Zip: GA, 30308		E-Mail: cheyenne.whitmore@testamericainc.com		Preservation Codes:	
Phone:		Due Date Requested:		M - Hexane	
PO #:		TAT Requested (days):		N - None	
WO #:		Project #:		O - Acetate	
Email: JAbraham@southernco.com		SSOW#:		P - Na2O4S	
Project Name: CCR - Scherer		Site: ASN Pond		Q - Na2SO3	
Site: ASN Pond		Matrix (Water, Solid, Organic)		R - Na2S2O3	
Sample Identification		Sample Date		S - H2SO4	
SGWC-7		6/27/17		T - TSP Dodecahydrate	
SGWC-6		6/27/17		U - Acetone	
SGWA-25		6/27/17		V - MCAA	
SGWC-17		6/27/17		W - pH 4-5	
SGWC-11		6/27/17		L - EDA	
SGWC-8		6/27/17		Z - other (specify)	
SGWC-12		6/27/17		Other:	
SGWC-9		6/27/17			
SGWC-13		6/27/17			
FD-2		6/27/17			
FB-2(AP)		6/27/17			
EB-2(AP)		6/27/17			
Possible Hazard Identification <input type="checkbox"/> Non-Hazard <input type="checkbox"/> Flammable <input type="checkbox"/> Skin Irritant <input type="checkbox"/> Poison B <input type="checkbox"/> Unknown <input type="checkbox"/> Radiological					
Deliverable Requested: I, II, III, IV, Other (specify)					
Empty Kit Relinquished by: _____ Date: _____ Time: _____ Method of Shipment: _____					
Relinquished by: Ben Hodges Date/Time: 6/28/17 0800 Company: Now					
Relinquished by: T Elrod Date/Time: 6/28/17 0950 Company: Now					
Relinquished by: T Elrod Date/Time: 6/28/17 1600 Company: Now					
Custody Seals Intact: <input type="checkbox"/> Yes <input type="checkbox"/> No Custody Seal No.: _____					



Login Sample Receipt Checklist

Client: Southern Company

Job Number: 400-139893-1

SDG Number: Ash Pond

Login Number: 139893

List Number: 1

Creator: Siddoway, Benjamin

List Source: TestAmerica Pensacola

Question	Answer	Comment
Radioactivity wasn't checked or is \leq background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	N/A	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	0.0°C, 4.5°C IR-2
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.	False	Sample dates corrected from 6/24 to 6/26 per client. FD-3(AP) labeled FB-3(AP).
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 <math><6\text{mm}</math> (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: Southern Company
 Project/Site: CCR - Plant Scherer

TestAmerica Job ID: 400-139893-1
 SDG: Ash Pond

Laboratory: TestAmerica Pensacola

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

Authority	Program	EPA Region	Identification Number	Expiration Date
Alabama	State Program	4	40150	06-30-18
Arizona	State Program	9	AZ0710	01-11-18
Arkansas DEQ	State Program	6	88-0689	09-01-17
California	ELAP	9	2510	03-31-18
Florida	NELAP	4	E81010	06-30-18
Georgia	State Program	4	N/A	06-30-18
Illinois	NELAP	5	200041	10-09-17
Iowa	State Program	7	367	08-01-18
Kansas	NELAP	7	E-10253	10-31-17
Kentucky (UST)	State Program	4	53	06-30-17 *
Kentucky (WW)	State Program	4	98030	12-31-17
L-A-B	ISO/IEC 17025		L2471	02-22-20
Louisiana	NELAP	6	30976	06-30-18
Louisiana (DW)	NELAP	6	LA170005	12-31-17
Maryland	State Program	3	233	09-30-18
Massachusetts	State Program	1	M-FL094	06-30-18
Michigan	State Program	5	9912	06-30-17 *
New Jersey	NELAP	2	FL006	06-30-18
North Carolina (WW/SW)	State Program	4	314	12-31-17
Oklahoma	State Program	6	9810	08-31-17
Pennsylvania	NELAP	3	68-00467	01-31-18
Rhode Island	State Program	1	LAO00307	12-30-17
South Carolina	State Program	4	96026	06-30-17 *
Tennessee	State Program	4	TN02907	06-30-18
Texas	NELAP	6	T104704286-16-10	09-30-17
USDA	Federal		P330-16-00172	05-24-19
Virginia	NELAP	3	460166	06-14-18
Washington	State Program	10	C915	05-15-18
West Virginia DEP	State Program	3	136	06-30-18

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



TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

TestAmerica Laboratories, Inc.

TestAmerica Pensacola

3355 McLemore Drive

Pensacola, FL 32514

Tel: (850)474-1001

TestAmerica Job ID: 400-139893-2

TestAmerica Sample Delivery Group: Ash Pond

Client Project/Site: CCR - Plant Scherer

For:

Southern Company

241 Ralph McGill Blvd SE

B10185

Atlanta, Georgia 30308

Attn: Joju Abraham



Authorized for release by:

7/28/2017 5:58:00 PM

Cheyenne Whitmire, Project Manager II

(850)471-6222

cheyenne.whitmire@testamericainc.com

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The test results in this report meet all 2003 NELAC and 2009 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.

1

2

3

4

5

6

7

8

9

10

11

12

13



Table of Contents

Cover Page	1
Table of Contents	2
Case Narrative	3
Method Summary	4
Sample Summary	5
Client Sample Results	6
Definitions	40
Chronicle	41
QC Association	50
QC Sample Results	52
Chain of Custody	56
Receipt Checklists	60
Certification Summary	61

Case Narrative

Client: Southern Company
Project/Site: CCR - Plant Scherer

TestAmerica Job ID: 400-139893-2
SDG: Ash Pond

Job ID: 400-139893-2

Laboratory: TestAmerica Pensacola

Narrative

Job Narrative 400-139893-2

RAD

Method(s) 9320: Radium-228 Prep Batch 160-316520: The sample duplicate precision for the following sample is outside control limits (400-139893-A-9-B DU). Both the sample and the sample duplicate activity are below the MDC. Batch precision is demonstrated by sample 400-139893-A-10-B DU. The data have been qualified and reported. SGWA-4 (400-139893-1), EB-1(AP) (400-139893-2), SGWA-3 (400-139893-3), SGWA-5 (400-139893-4), FB-1(AP) (400-139893-5), SGWA-1 (400-139893-6), FD-1(AP) (400-139893-7), SGWA-2 (400-139893-8), SGWA-24 (400-139893-9), SGWA-24 (400-139893-9[DU]), SGWC-22 (400-139893-10), SGWC-22 (400-139893-10[DU]), SGWC-19 (400-139893-11), SGWC-21 (400-139893-12), SGWC-23 (400-139893-13), SGWC-18 (400-139893-14), SGWC-20 (400-139893-15), FD-3(AP) (400-139893-16), FB-3(AP) (400-139893-17), EB-3(AP) (400-139893-18), (LCS 160-316520/2-A) and (MB 160-316520/1-A)

Method(s) 9320: Radium-228 Prep Batch 160-316520: The absolute value of the negative result for the following sample is outside the three sigma uncertainty: SGWA-24 (400-139893-9). A recount was not possible due to the passing of a full decay cycle of actinium-228. The data have been qualified and reported.

Method Summary

Client: Southern Company
Project/Site: CCR - Plant Scherer

TestAmerica Job ID: 400-139893-2
SDG: Ash Pond

Method	Method Description	Protocol	Laboratory
9315	Radium-226 (GFPC)	SW846	TAL SL
9320	Radium-228 (GFPC)	SW846	TAL SL
Ra226_Ra228	Combined Radium-226 and Radium-228	TAL-STL	TAL SL

Protocol References:

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:

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



Sample Summary

Client: Southern Company
Project/Site: CCR - Plant Scherer

TestAmerica Job ID: 400-139893-2
SDG: Ash Pond

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
400-139893-1	SGWA-4	Water	06/26/17 14:30	06/28/17 08:33
400-139893-2	EB-1(AP)	Water	06/26/17 15:30	06/28/17 08:33
400-139893-3	SGWA-3	Water	06/26/17 12:55	06/28/17 08:33
400-139893-4	SGWA-5	Water	06/26/17 10:25	06/28/17 08:33
400-139893-5	FB-1(AP)	Water	06/26/17 10:00	06/28/17 08:33
400-139893-6	SGWA-1	Water	06/26/17 13:50	06/28/17 08:33
400-139893-7	FD-1(AP)	Water	06/26/17 00:00	06/28/17 08:33
400-139893-8	SGWA-2	Water	06/26/17 15:30	06/28/17 08:33
400-139893-9	SGWA-24	Water	06/26/17 14:55	06/28/17 08:33
400-139893-10	SGWC-22	Water	06/28/17 09:15	06/29/17 08:50
400-139893-11	SGWC-19	Water	06/28/17 09:10	06/29/17 08:50
400-139893-12	SGWC-21	Water	06/28/17 09:35	06/29/17 08:50
400-139893-13	SGWC-23	Water	06/28/17 10:35	06/29/17 08:50
400-139893-14	SGWC-18	Water	06/28/17 10:15	06/29/17 08:50
400-139893-15	SGWC-20	Water	06/28/17 11:05	06/29/17 08:50
400-139893-16	FD-3(AP)	Water	06/28/17 00:00	06/29/17 08:50
400-139893-17	FB-3(AP)	Water	06/28/17 08:40	06/29/17 08:50
400-139893-18	EB-3(AP)	Water	06/28/17 11:00	06/29/17 08:50
400-139893-19	SGWC-7	Water	06/27/17 12:45	06/29/17 08:50
400-139893-20	SGWC-6	Water	06/27/17 10:25	06/29/17 08:50
400-139893-21	SGWA-25	Water	06/27/17 09:20	06/29/17 08:50
400-139893-22	SGWC-17	Water	06/27/17 14:40	06/29/17 08:50
400-139893-23	SGWC-11	Water	06/27/17 09:20	06/29/17 08:50
400-139893-24	SGWC-8	Water	06/27/17 09:30	06/29/17 08:50
400-139893-25	SGWC-12	Water	06/27/17 10:50	06/29/17 08:50
400-139893-26	SGWC-9	Water	06/27/17 10:50	06/29/17 08:50
400-139893-27	SGWC-13	Water	06/27/17 11:55	06/29/17 08:50
400-139893-28	FD-2	Water	06/27/17 00:00	06/29/17 08:50
400-139893-29	FB-2(AP)	Water	06/27/17 08:50	06/29/17 08:50
400-139893-30	EB-2(AP)	Water	06/27/17 15:20	06/29/17 08:50
400-139893-31	SGWC-10	Water	06/27/17 13:45	06/29/17 08:50
400-139893-32	SGWC-14	Water	06/27/17 13:55	06/29/17 08:50
400-139893-33	SGWC-15	Water	06/27/17 14:55	06/29/17 08:50
400-139893-34	SGWC-16	Water	06/27/17 15:20	06/29/17 08:50

Client Sample Results

Client: Southern Company
Project/Site: CCR - Plant Scherer

TestAmerica Job ID: 400-139893-2
SDG: Ash Pond

Client Sample ID: SGWA-4

Date Collected: 06/26/17 14:30

Date Received: 06/28/17 08:33

Lab Sample ID: 400-139893-1

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	0.0399	U	0.0467	0.0469	1.00	0.0748	pCi/L	07/06/17 13:43	07/28/17 08:05	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	95.0		40 - 110					07/06/17 13:43	07/28/17 08:05	1

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.144	U	0.185	0.186	1.00	0.308	pCi/L	07/06/17 14:13	07/18/17 10:53	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	95.0		40 - 110					07/06/17 14:13	07/18/17 10:53	1
Y Carrier	91.2		40 - 110					07/06/17 14:13	07/18/17 10:53	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	0.184	U	0.191	0.192	5.00	0.308	pCi/L		07/28/17 15:26	1

Client Sample Results

Client: Southern Company
Project/Site: CCR - Plant Scherer

TestAmerica Job ID: 400-139893-2
SDG: Ash Pond

Client Sample ID: EB-1(AP)

Date Collected: 06/26/17 15:30

Date Received: 06/28/17 08:33

Lab Sample ID: 400-139893-2

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	0.0581	U	0.0627	0.0630	1.00	0.100	pCi/L	07/06/17 13:43	07/28/17 08:04	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	96.8		40 - 110					07/06/17 13:43	07/28/17 08:04	1

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.238	U	0.205	0.206	1.00	0.328	pCi/L	07/06/17 14:13	07/18/17 10:53	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	96.8		40 - 110					07/06/17 14:13	07/18/17 10:53	1
Y Carrier	95.6		40 - 110					07/06/17 14:13	07/18/17 10:53	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	0.296	U	0.214	0.216	5.00	0.328	pCi/L		07/28/17 15:26	1

Client Sample Results

Client: Southern Company
 Project/Site: CCR - Plant Scherer

TestAmerica Job ID: 400-139893-2
 SDG: Ash Pond

Client Sample ID: SGWA-3

Lab Sample ID: 400-139893-3

Date Collected: 06/26/17 12:55

Matrix: Water

Date Received: 06/28/17 08:33

Method: 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.0547	U	0.0551	0.0553	1.00	0.0845	pCi/L	07/06/17 13:43	07/28/17 08:04	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	98.2		40 - 110					07/06/17 13:43	07/28/17 08:04	1

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.277	U	0.221	0.223	1.00	0.351	pCi/L	07/06/17 14:13	07/18/17 10:53	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	98.2		40 - 110					07/06/17 14:13	07/18/17 10:53	1
Y Carrier	91.2		40 - 110					07/06/17 14:13	07/18/17 10:53	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	0.332	U	0.228	0.229	5.00	0.351	pCi/L		07/28/17 15:26	1

Client Sample Results

Client: Southern Company
Project/Site: CCR - Plant Scherer

TestAmerica Job ID: 400-139893-2
SDG: Ash Pond

Client Sample ID: SGWA-5

Lab Sample ID: 400-139893-4

Date Collected: 06/26/17 10:25

Matrix: Water

Date Received: 06/28/17 08:33

Method: 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.0341	U	0.0540	0.0541	1.00	0.0940	pCi/L	07/06/17 13:43	07/28/17 08:04	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	93.5		40 - 110					07/06/17 13:43	07/28/17 08:04	1

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.117	U	0.223	0.223	1.00	0.379	pCi/L	07/06/17 14:13	07/18/17 10:53	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	93.5		40 - 110					07/06/17 14:13	07/18/17 10:53	1
Y Carrier	89.5		40 - 110					07/06/17 14:13	07/18/17 10:53	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	0.151	U	0.230	0.230	5.00	0.379	pCi/L		07/28/17 15:26	1

Client Sample Results

Client: Southern Company
Project/Site: CCR - Plant Scherer

TestAmerica Job ID: 400-139893-2
SDG: Ash Pond

Client Sample ID: FB-1(AP)

Lab Sample ID: 400-139893-5

Date Collected: 06/26/17 10:00

Matrix: Water

Date Received: 06/28/17 08:33

Method: 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.0528	U	0.0539	0.0541	1.00	0.0830	pCi/L	07/06/17 13:43	07/28/17 08:04	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	95.0		40 - 110					07/06/17 13:43	07/28/17 08:04	1

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.104	U	0.205	0.206	1.00	0.350	pCi/L	07/06/17 14:13	07/18/17 10:53	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	95.0		40 - 110					07/06/17 14:13	07/18/17 10:53	1
Y Carrier	87.5		40 - 110					07/06/17 14:13	07/18/17 10:53	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	0.157	U	0.212	0.213	5.00	0.350	pCi/L		07/28/17 15:26	1

Client Sample Results

Client: Southern Company
Project/Site: CCR - Plant Scherer

TestAmerica Job ID: 400-139893-2
SDG: Ash Pond

Client Sample ID: SGWA-1

Date Collected: 06/26/17 13:50

Date Received: 06/28/17 08:33

Lab Sample ID: 400-139893-6

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	0.00620	U	0.0247	0.0247	1.00	0.0551	pCi/L	07/06/17 13:43	07/28/17 08:04	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	95.9		40 - 110					07/06/17 13:43	07/28/17 08:04	1

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.354		0.207	0.209	1.00	0.311	pCi/L	07/06/17 14:13	07/18/17 10:53	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	95.9		40 - 110					07/06/17 14:13	07/18/17 10:53	1
Y Carrier	90.9		40 - 110					07/06/17 14:13	07/18/17 10:53	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	0.360		0.208	0.211	5.00	0.311	pCi/L		07/28/17 15:26	1

Client Sample Results

Client: Southern Company
Project/Site: CCR - Plant Scherer

TestAmerica Job ID: 400-139893-2
SDG: Ash Pond

Client Sample ID: FD-1(AP)

Lab Sample ID: 400-139893-7

Date Collected: 06/26/17 00:00

Matrix: Water

Date Received: 06/28/17 08:33

Method: 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.0386	U	0.0599	0.0600	1.00	0.104	pCi/L	07/06/17 13:43	07/28/17 08:04	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	94.4		40 - 110					07/06/17 13:43	07/28/17 08:04	1

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.167	U	0.187	0.188	1.00	0.307	pCi/L	07/06/17 14:13	07/18/17 10:53	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	94.4		40 - 110					07/06/17 14:13	07/18/17 10:53	1
Y Carrier	84.8		40 - 110					07/06/17 14:13	07/18/17 10:53	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	0.206	U	0.196	0.197	5.00	0.307	pCi/L		07/28/17 15:26	1

Client Sample Results

Client: Southern Company
Project/Site: CCR - Plant Scherer

TestAmerica Job ID: 400-139893-2
SDG: Ash Pond

Client Sample ID: SGWA-2

Lab Sample ID: 400-139893-8

Date Collected: 06/26/17 15:30

Matrix: Water

Date Received: 06/28/17 08:33

Method: 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.0406	U	0.0492	0.0494	1.00	0.0798	pCi/L	07/06/17 13:43	07/28/17 08:04	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	89.4		40 - 110					07/06/17 13:43	07/28/17 08:04	1

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.0570	U	0.220	0.220	1.00	0.386	pCi/L	07/06/17 14:13	07/18/17 10:53	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	89.4		40 - 110					07/06/17 14:13	07/18/17 10:53	1
Y Carrier	84.8		40 - 110					07/06/17 14:13	07/18/17 10:53	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	0.0975	U	0.226	0.226	5.00	0.386	pCi/L		07/28/17 15:26	1

Client Sample Results

Client: Southern Company
Project/Site: CCR - Plant Scherer

TestAmerica Job ID: 400-139893-2
SDG: Ash Pond

Client Sample ID: SGWA-24

Lab Sample ID: 400-139893-9

Date Collected: 06/26/17 14:55

Matrix: Water

Date Received: 06/28/17 08:33

Method: 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.0405	U	0.0557	0.0558	1.00	0.0940	pCi/L	07/06/17 13:43	07/28/17 08:03	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	91.2		40 - 110					07/06/17 13:43	07/28/17 08:03	1

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	-0.297	U	0.193	0.195	1.00	0.397	pCi/L	07/06/17 14:13	07/18/17 10:54	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	91.2		40 - 110					07/06/17 14:13	07/18/17 10:54	1
Y Carrier	87.2		40 - 110					07/06/17 14:13	07/18/17 10:54	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	-0.257	U	0.201	0.203	5.00	0.397	pCi/L		07/28/17 15:26	1

Client Sample Results

Client: Southern Company
Project/Site: CCR - Plant Scherer

TestAmerica Job ID: 400-139893-2
SDG: Ash Pond

Client Sample ID: SGWC-22

Lab Sample ID: 400-139893-10

Date Collected: 06/28/17 09:15

Matrix: Water

Date Received: 06/29/17 08:50

Method: 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.0291	U	0.0462	0.0462	1.00	0.0806	pCi/L	07/06/17 13:43	07/28/17 08:03	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	98.2		40 - 110					07/06/17 13:43	07/28/17 08:03	1

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.0553	U	0.165	0.165	1.00	0.287	pCi/L	07/06/17 14:13	07/18/17 10:54	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	98.2		40 - 110					07/06/17 14:13	07/18/17 10:54	1
Y Carrier	105		40 - 110					07/06/17 14:13	07/18/17 10:54	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	0.0844	U	0.172	0.172	5.00	0.287	pCi/L		07/28/17 15:26	1

Client Sample Results

Client: Southern Company
 Project/Site: CCR - Plant Scherer

TestAmerica Job ID: 400-139893-2
 SDG: Ash Pond

Client Sample ID: SGWC-19

Lab Sample ID: 400-139893-11

Date Collected: 06/28/17 09:10

Matrix: Water

Date Received: 06/29/17 08:50

Method: 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.0187	U	0.0420	0.0421	1.00	0.0792	pCi/L	07/06/17 13:43	07/28/17 08:03	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	92.6		40 - 110					07/06/17 13:43	07/28/17 08:03	1

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.0916	U	0.209	0.209	1.00	0.360	pCi/L	07/06/17 14:13	07/18/17 10:54	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	92.6		40 - 110					07/06/17 14:13	07/18/17 10:54	1
Y Carrier	85.8		40 - 110					07/06/17 14:13	07/18/17 10:54	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	0.110	U	0.213	0.213	5.00	0.360	pCi/L		07/28/17 15:26	1

Client Sample Results

Client: Southern Company
Project/Site: CCR - Plant Scherer

TestAmerica Job ID: 400-139893-2
SDG: Ash Pond

Client Sample ID: SGWC-21

Lab Sample ID: 400-139893-12

Date Collected: 06/28/17 09:35

Matrix: Water

Date Received: 06/29/17 08:50

Method: 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	-0.000698	U	0.0507	0.0507	1.00	0.105	pCi/L	07/06/17 13:43	07/28/17 08:03	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	95.9		40 - 110					07/06/17 13:43	07/28/17 08:03	1

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.144	U	0.191	0.192	1.00	0.318	pCi/L	07/06/17 14:13	07/18/17 10:54	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	95.9		40 - 110					07/06/17 14:13	07/18/17 10:54	1
Y Carrier	95.3		40 - 110					07/06/17 14:13	07/18/17 10:54	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	0.143	U	0.198	0.198	5.00	0.318	pCi/L		07/28/17 15:26	1

Client Sample Results

Client: Southern Company
Project/Site: CCR - Plant Scherer

TestAmerica Job ID: 400-139893-2
SDG: Ash Pond

Client Sample ID: SGWC-23

Lab Sample ID: 400-139893-13

Date Collected: 06/28/17 10:35

Matrix: Water

Date Received: 06/29/17 08:50

Method: 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.176		0.0809	0.0825	1.00	0.0875	pCi/L	07/06/17 13:43	07/28/17 08:03	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	95.6		40 - 110					07/06/17 13:43	07/28/17 08:03	1

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.155	U	0.210	0.210	1.00	0.349	pCi/L	07/06/17 14:13	07/18/17 10:55	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	95.6		40 - 110					07/06/17 14:13	07/18/17 10:55	1
Y Carrier	86.8		40 - 110					07/06/17 14:13	07/18/17 10:55	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	0.331	U	0.225	0.226	5.00	0.349	pCi/L		07/28/17 15:26	1

Client Sample Results

Client: Southern Company
Project/Site: CCR - Plant Scherer

TestAmerica Job ID: 400-139893-2
SDG: Ash Pond

Client Sample ID: SGWC-18

Lab Sample ID: 400-139893-14

Date Collected: 06/28/17 10:15

Matrix: Water

Date Received: 06/29/17 08:50

Method: 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.0955	U	0.0749	0.0754	1.00	0.108	pCi/L	07/06/17 13:43	07/28/17 08:03	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	84.4		40 - 110					07/06/17 13:43	07/28/17 08:03	1

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.416	U	0.318	0.321	1.00	0.508	pCi/L	07/06/17 14:13	07/18/17 10:50	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	84.4		40 - 110					07/06/17 14:13	07/18/17 10:50	1
Y Carrier	93.2		40 - 110					07/06/17 14:13	07/18/17 10:50	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	0.512		0.327	0.329	5.00	0.508	pCi/L		07/28/17 15:26	1

Client Sample Results

Client: Southern Company
Project/Site: CCR - Plant Scherer

TestAmerica Job ID: 400-139893-2
SDG: Ash Pond

Client Sample ID: SGWC-20

Date Collected: 06/28/17 11:05

Date Received: 06/29/17 08:50

Lab Sample ID: 400-139893-15

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	0.0923		0.0668	0.0673	1.00	0.0917	pCi/L	07/06/17 13:43	07/28/17 08:03	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	91.7		40 - 110					07/06/17 13:43	07/28/17 08:03	1

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.748		0.267	0.276	1.00	0.369	pCi/L	07/06/17 14:13	07/18/17 10:50	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	91.7		40 - 110					07/06/17 14:13	07/18/17 10:50	1
Y Carrier	95.6		40 - 110					07/06/17 14:13	07/18/17 10:50	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	0.840		0.275	0.284	5.00	0.369	pCi/L		07/28/17 15:26	1

Client Sample Results

Client: Southern Company
Project/Site: CCR - Plant Scherer

TestAmerica Job ID: 400-139893-2
SDG: Ash Pond

Client Sample ID: FD-3(AP)

Lab Sample ID: 400-139893-16

Date Collected: 06/28/17 00:00

Matrix: Water

Date Received: 06/29/17 08:50

Method: 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.00893	U	0.0508	0.0508	1.00	0.103	pCi/L	07/06/17 13:43	07/28/17 08:13	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	92.3		40 - 110					07/06/17 13:43	07/28/17 08:13	1

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.672		0.273	0.280	1.00	0.392	pCi/L	07/06/17 14:13	07/18/17 10:50	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	92.3		40 - 110					07/06/17 14:13	07/18/17 10:50	1
Y Carrier	93.9		40 - 110					07/06/17 14:13	07/18/17 10:50	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	0.681		0.277	0.284	5.00	0.392	pCi/L		07/28/17 15:26	1

Client Sample Results

Client: Southern Company
 Project/Site: CCR - Plant Scherer

TestAmerica Job ID: 400-139893-2
 SDG: Ash Pond

Client Sample ID: FB-3(AP)

Lab Sample ID: 400-139893-17

Date Collected: 06/28/17 08:40

Matrix: Water

Date Received: 06/29/17 08:50

Method: 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.0230	U	0.0534	0.0534	1.00	0.0988	pCi/L	07/06/17 13:43	07/28/17 08:13	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	98.5		40 - 110					07/06/17 13:43	07/28/17 08:13	1

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.0628	U	0.238	0.238	1.00	0.411	pCi/L	07/06/17 14:13	07/18/17 10:50	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	98.5		40 - 110					07/06/17 14:13	07/18/17 10:50	1
Y Carrier	96.3		40 - 110					07/06/17 14:13	07/18/17 10:50	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	0.0858	U	0.244	0.244	5.00	0.411	pCi/L		07/28/17 15:26	1

Client Sample Results

Client: Southern Company
Project/Site: CCR - Plant Scherer

TestAmerica Job ID: 400-139893-2
SDG: Ash Pond

Client Sample ID: EB-3(AP)

Lab Sample ID: 400-139893-18

Date Collected: 06/28/17 11:00

Matrix: Water

Date Received: 06/29/17 08:50

Method: 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.00828	U	0.0668	0.0668	1.00	0.129	pCi/L	07/06/17 13:43	07/28/17 08:13	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	92.3		40 - 110					07/06/17 13:43	07/28/17 08:13	1

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.452		0.228	0.232	1.00	0.336	pCi/L	07/06/17 14:13	07/18/17 10:50	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	92.3		40 - 110					07/06/17 14:13	07/18/17 10:50	1
Y Carrier	98.6		40 - 110					07/06/17 14:13	07/18/17 10:50	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	0.461		0.237	0.241	5.00	0.336	pCi/L		07/28/17 15:26	1

Client Sample Results

Client: Southern Company
Project/Site: CCR - Plant Scherer

TestAmerica Job ID: 400-139893-2
SDG: Ash Pond

Client Sample ID: SGWC-7

Lab Sample ID: 400-139893-19

Date Collected: 06/27/17 12:45

Matrix: Water

Date Received: 06/29/17 08:50

Method: 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.186		0.0974	0.0988	1.00	0.122	pCi/L	07/06/17 09:41	07/28/17 06:15	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	89.7		40 - 110					07/06/17 09:41	07/28/17 06:15	1

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.412		0.219	0.222	1.00	0.323	pCi/L	07/06/17 10:09	07/17/17 15:11	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	89.7		40 - 110					07/06/17 10:09	07/17/17 15:11	1
Y Carrier	100		40 - 110					07/06/17 10:09	07/17/17 15:11	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	0.598		0.240	0.243	5.00	0.323	pCi/L		07/28/17 15:26	1

Client Sample Results

Client: Southern Company
Project/Site: CCR - Plant Scherer

TestAmerica Job ID: 400-139893-2
SDG: Ash Pond

Client Sample ID: SGWC-6

Lab Sample ID: 400-139893-20

Date Collected: 06/27/17 10:25

Matrix: Water

Date Received: 06/29/17 08:50

Method: 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.0801	U	0.0614	0.0618	1.00	0.0869	pCi/L	07/06/17 09:41	07/28/17 07:52	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	99.7		40 - 110					07/06/17 09:41	07/28/17 07:52	1

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	-0.00177	U	0.190	0.190	1.00	0.340	pCi/L	07/06/17 10:09	07/17/17 15:11	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	99.7		40 - 110					07/06/17 10:09	07/17/17 15:11	1
Y Carrier	99.3		40 - 110					07/06/17 10:09	07/17/17 15:11	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	0.0783	U	0.200	0.200	5.00	0.340	pCi/L		07/28/17 15:26	1

Client Sample Results

Client: Southern Company
 Project/Site: CCR - Plant Scherer

TestAmerica Job ID: 400-139893-2
 SDG: Ash Pond

Client Sample ID: SGWA-25

Date Collected: 06/27/17 09:20

Date Received: 06/29/17 08:50

Lab Sample ID: 400-139893-21

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	0.0247	U	0.0518	0.0518	1.00	0.0940	pCi/L	07/06/17 09:41	07/28/17 07:52	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	98.2		40 - 110					07/06/17 09:41	07/28/17 07:52	1

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	-0.0783	U	0.164	0.164	1.00	0.311	pCi/L	07/06/17 10:09	07/17/17 15:11	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	98.2		40 - 110					07/06/17 10:09	07/17/17 15:11	1
Y Carrier	96.3		40 - 110					07/06/17 10:09	07/17/17 15:11	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	-0.0536	U	0.172	0.172	5.00	0.311	pCi/L		07/28/17 15:26	1

Client Sample Results

Client: Southern Company
Project/Site: CCR - Plant Scherer

TestAmerica Job ID: 400-139893-2
SDG: Ash Pond

Client Sample ID: SGWC-17

Lab Sample ID: 400-139893-22

Date Collected: 06/27/17 14:40

Matrix: Water

Date Received: 06/29/17 08:50

Method: 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.0294	U	0.0437	0.0437	1.00	0.0751	pCi/L	07/06/17 09:41	07/28/17 07:52	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	96.5		40 - 110					07/06/17 09:41	07/28/17 07:52	1

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.156	U	0.168	0.168	1.00	0.274	pCi/L	07/06/17 10:09	07/17/17 15:11	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	96.5		40 - 110					07/06/17 10:09	07/17/17 15:11	1
Y Carrier	103		40 - 110					07/06/17 10:09	07/17/17 15:11	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	0.186	U	0.173	0.174	5.00	0.274	pCi/L		07/28/17 15:26	1

Client Sample Results

Client: Southern Company
 Project/Site: CCR - Plant Scherer

TestAmerica Job ID: 400-139893-2
 SDG: Ash Pond

Client Sample ID: SGWC-11

Lab Sample ID: 400-139893-23

Date Collected: 06/27/17 09:20

Matrix: Water

Date Received: 06/29/17 08:50

Method: 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.0221	U	0.0453	0.0454	1.00	0.0826	pCi/L	07/06/17 09:41	07/28/17 07:52	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	100		40 - 110					07/06/17 09:41	07/28/17 07:52	1

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.347		0.173	0.176	1.00	0.247	pCi/L	07/06/17 10:09	07/17/17 15:11	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	100		40 - 110					07/06/17 10:09	07/17/17 15:11	1
Y Carrier	103		40 - 110					07/06/17 10:09	07/17/17 15:11	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	0.369		0.179	0.181	5.00	0.247	pCi/L		07/28/17 15:26	1

Client Sample Results

Client: Southern Company
Project/Site: CCR - Plant Scherer

TestAmerica Job ID: 400-139893-2
SDG: Ash Pond

Client Sample ID: SGWC-8

Lab Sample ID: 400-139893-24

Date Collected: 06/27/17 09:30

Matrix: Water

Date Received: 06/29/17 08:50

Method: 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.440		0.112	0.119	1.00	0.0778	pCi/L	07/06/17 09:41	07/28/17 07:52	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	98.2		40 - 110					07/06/17 09:41	07/28/17 07:52	1

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	1.63		0.278	0.316	1.00	0.274	pCi/L	07/06/17 10:09	07/17/17 15:11	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	98.2		40 - 110					07/06/17 10:09	07/17/17 15:11	1
Y Carrier	104		40 - 110					07/06/17 10:09	07/17/17 15:11	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	2.07		0.300	0.338	5.00	0.274	pCi/L		07/28/17 15:26	1

Client Sample Results

Client: Southern Company
Project/Site: CCR - Plant Scherer

TestAmerica Job ID: 400-139893-2
SDG: Ash Pond

Client Sample ID: SGWC-12

Date Collected: 06/27/17 10:50

Date Received: 06/29/17 08:50

Lab Sample ID: 400-139893-25

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	0.00505	U	0.0457	0.0457	1.00	0.0918	pCi/L	07/06/17 09:41	07/28/17 07:52	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	101		40 - 110					07/06/17 09:41	07/28/17 07:52	1

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.178	U	0.169	0.170	1.00	0.272	pCi/L	07/06/17 10:09	07/17/17 15:11	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	101		40 - 110					07/06/17 10:09	07/17/17 15:11	1
Y Carrier	97.3		40 - 110					07/06/17 10:09	07/17/17 15:11	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	0.183	U	0.175	0.176	5.00	0.272	pCi/L		07/28/17 15:26	1

Client Sample Results

Client: Southern Company
Project/Site: CCR - Plant Scherer

TestAmerica Job ID: 400-139893-2
SDG: Ash Pond

Client Sample ID: SGWC-9

Lab Sample ID: 400-139893-26

Date Collected: 06/27/17 10:50

Matrix: Water

Date Received: 06/29/17 08:50

Method: 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.0278	U	0.0451	0.0452	1.00	0.0790	pCi/L	07/06/17 09:41	07/28/17 07:52	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	98.2		40 - 110					07/06/17 09:41	07/28/17 07:52	1

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.241	U	0.174	0.176	1.00	0.269	pCi/L	07/06/17 10:09	07/17/17 15:11	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	98.2		40 - 110					07/06/17 10:09	07/17/17 15:11	1
Y Carrier	102		40 - 110					07/06/17 10:09	07/17/17 15:11	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	0.268	U	0.180	0.181	5.00	0.269	pCi/L		07/28/17 15:26	1

Client Sample Results

Client: Southern Company
Project/Site: CCR - Plant Scherer

TestAmerica Job ID: 400-139893-2
SDG: Ash Pond

Client Sample ID: SGWC-13

Lab Sample ID: 400-139893-27

Date Collected: 06/27/17 11:55

Matrix: Water

Date Received: 06/29/17 08:50

Method: 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	-0.00529	U	0.0394	0.0394	1.00	0.0876	pCi/L	07/06/17 09:41	07/28/17 07:52	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	95.0		40 - 110					07/06/17 09:41	07/28/17 07:52	1

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.0627	U	0.192	0.193	1.00	0.334	pCi/L	07/06/17 10:09	07/17/17 15:10	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	95.0		40 - 110					07/06/17 10:09	07/17/17 15:10	1
Y Carrier	100		40 - 110					07/06/17 10:09	07/17/17 15:10	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	0.0574	U	0.196	0.197	5.00	0.334	pCi/L		07/28/17 15:26	1

Client Sample Results

Client: Southern Company
Project/Site: CCR - Plant Scherer

TestAmerica Job ID: 400-139893-2
SDG: Ash Pond

Client Sample ID: FD-2
Date Collected: 06/27/17 00:00
Date Received: 06/29/17 08:50

Lab Sample ID: 400-139893-28
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	0.0557	U	0.0500	0.0503	1.00	0.0733	pCi/L	07/06/17 09:41	07/28/17 07:52	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	102		40 - 110					07/06/17 09:41	07/28/17 07:52	1

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.112	U	0.191	0.191	1.00	0.323	pCi/L	07/06/17 10:09	07/17/17 15:10	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	102		40 - 110					07/06/17 10:09	07/17/17 15:10	1
Y Carrier	99.7		40 - 110					07/06/17 10:09	07/17/17 15:10	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	0.167	U	0.197	0.198	5.00	0.323	pCi/L		07/28/17 15:26	1

Client Sample Results

Client: Southern Company
Project/Site: CCR - Plant Scherer

TestAmerica Job ID: 400-139893-2
SDG: Ash Pond

Client Sample ID: FB-2(AP)

Lab Sample ID: 400-139893-29

Date Collected: 06/27/17 08:50

Matrix: Water

Date Received: 06/29/17 08:50

Method: 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	-0.0159	U	0.0304	0.0305	1.00	0.0790	pCi/L	07/06/17 09:41	07/28/17 07:51	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	99.7		40 - 110					07/06/17 09:41	07/28/17 07:51	1

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.329		0.189	0.191	1.00	0.281	pCi/L	07/06/17 10:09	07/17/17 15:10	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	99.7		40 - 110					07/06/17 10:09	07/17/17 15:10	1
Y Carrier	101		40 - 110					07/06/17 10:09	07/17/17 15:10	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	0.313		0.191	0.194	5.00	0.281	pCi/L		07/28/17 15:26	1

Client Sample Results

Client: Southern Company
Project/Site: CCR - Plant Scherer

TestAmerica Job ID: 400-139893-2
SDG: Ash Pond

Client Sample ID: EB-2(AP)

Lab Sample ID: 400-139893-30

Date Collected: 06/27/17 15:20

Matrix: Water

Date Received: 06/29/17 08:50

Method: 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.0417	U	0.0492	0.0493	1.00	0.0800	pCi/L	07/06/17 09:41	07/28/17 07:51	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	102		40 - 110					07/06/17 09:41	07/28/17 07:51	1

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.0921	U	0.227	0.227	1.00	0.387	pCi/L	07/06/17 10:09	07/17/17 15:10	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	102		40 - 110					07/06/17 10:09	07/17/17 15:10	1
Y Carrier	97.3		40 - 110					07/06/17 10:09	07/17/17 15:10	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	0.134	U	0.232	0.232	5.00	0.387	pCi/L		07/28/17 15:26	1

Client Sample Results

Client: Southern Company
Project/Site: CCR - Plant Scherer

TestAmerica Job ID: 400-139893-2
SDG: Ash Pond

Client Sample ID: SGWC-10

Lab Sample ID: 400-139893-31

Date Collected: 06/27/17 13:45

Matrix: Water

Date Received: 06/29/17 08:50

Method: 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.0332	U	0.0443	0.0444	1.00	0.0741	pCi/L	07/06/17 09:41	07/28/17 07:51	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	96.5		40 - 110					07/06/17 09:41	07/28/17 07:51	1

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.437		0.219	0.222	1.00	0.323	pCi/L	07/06/17 10:09	07/17/17 15:10	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	96.5		40 - 110					07/06/17 10:09	07/17/17 15:10	1
Y Carrier	105		40 - 110					07/06/17 10:09	07/17/17 15:10	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	0.470		0.223	0.227	5.00	0.323	pCi/L		07/28/17 15:26	1

Client Sample Results

Client: Southern Company
 Project/Site: CCR - Plant Scherer

TestAmerica Job ID: 400-139893-2
 SDG: Ash Pond

Client Sample ID: SGWC-14

Lab Sample ID: 400-139893-32

Date Collected: 06/27/17 13:55

Matrix: Water

Date Received: 06/29/17 08:50

Method: 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	-0.0354	U	0.0301	0.0303	1.00	0.0876	pCi/L	07/06/17 09:41	07/28/17 07:51	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	102		40 - 110					07/06/17 09:41	07/28/17 07:51	1

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.337		0.185	0.188	1.00	0.274	pCi/L	07/06/17 10:09	07/17/17 15:10	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	102		40 - 110					07/06/17 10:09	07/17/17 15:10	1
Y Carrier	101		40 - 110					07/06/17 10:09	07/17/17 15:10	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	0.302		0.187	0.190	5.00	0.274	pCi/L		07/28/17 15:26	1

Client Sample Results

Client: Southern Company
Project/Site: CCR - Plant Scherer

TestAmerica Job ID: 400-139893-2
SDG: Ash Pond

Client Sample ID: SGWC-15

Lab Sample ID: 400-139893-33

Date Collected: 06/27/17 14:55

Matrix: Water

Date Received: 06/29/17 08:50

Method: 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.0101	U	0.0527	0.0527	1.00	0.102	pCi/L	07/06/17 09:41	07/28/17 07:51	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	94.4		40 - 110					07/06/17 09:41	07/28/17 07:51	1

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.0173	U	0.146	0.146	1.00	0.263	pCi/L	07/06/17 10:09	07/17/17 15:10	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	94.4		40 - 110					07/06/17 10:09	07/17/17 15:10	1
Y Carrier	108		40 - 110					07/06/17 10:09	07/17/17 15:10	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	0.0274	U	0.155	0.155	5.00	0.263	pCi/L		07/28/17 15:26	1

Client Sample Results

Client: Southern Company
Project/Site: CCR - Plant Scherer

TestAmerica Job ID: 400-139893-2
SDG: Ash Pond

Client Sample ID: SGWC-16

Lab Sample ID: 400-139893-34

Date Collected: 06/27/17 15:20

Matrix: Water

Date Received: 06/29/17 08:50

Method: 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.0606	U	0.0538	0.0541	1.00	0.0791	pCi/L	07/06/17 09:41	07/28/17 07:51	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	97.1		40 - 110					07/06/17 09:41	07/28/17 07:51	1

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.161	U	0.152	0.152	1.00	0.244	pCi/L	07/06/17 10:09	07/17/17 15:10	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	97.1		40 - 110					07/06/17 10:09	07/17/17 15:10	1
Y Carrier	109		40 - 110					07/06/17 10:09	07/17/17 15:10	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	0.222	U	0.161	0.162	5.00	0.244	pCi/L		07/28/17 15:26	1

Definitions/Glossary

Client: Southern Company
Project/Site: CCR - Plant Scherer

TestAmerica Job ID: 400-139893-2
SDG: Ash Pond

Qualifiers

Rad

Qualifier	Qualifier Description
U	Result is less than the sample detection limit.
F	Duplicate RPD exceeds the control limit

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
α	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
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)
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
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)

Lab Chronicle

Client: Southern Company
Project/Site: CCR - Plant Scherer

TestAmerica Job ID: 400-139893-2
SDG: Ash Pond

Client Sample ID: SGWA-4

Date Collected: 06/26/17 14:30

Date Received: 06/28/17 08:33

Lab Sample ID: 400-139893-1

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			316517	07/06/17 13:43	LDE	TAL SL
Total/NA	Analysis	9315		1	319585	07/28/17 08:05	RTM	TAL SL
Total/NA	Prep	PrecSep_0			316520	07/06/17 14:13	LDE	TAL SL
Total/NA	Analysis	9320		1	317954	07/18/17 10:53	RTM	TAL SL
Total/NA	Analysis	Ra226_Ra228		1	319718	07/28/17 15:26	RTM	TAL SL

Client Sample ID: EB-1(AP)

Date Collected: 06/26/17 15:30

Date Received: 06/28/17 08:33

Lab Sample ID: 400-139893-2

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			316517	07/06/17 13:43	LDE	TAL SL
Total/NA	Analysis	9315		1	319585	07/28/17 08:04	RTM	TAL SL
Total/NA	Prep	PrecSep_0			316520	07/06/17 14:13	LDE	TAL SL
Total/NA	Analysis	9320		1	317954	07/18/17 10:53	RTM	TAL SL
Total/NA	Analysis	Ra226_Ra228		1	319718	07/28/17 15:26	RTM	TAL SL

Client Sample ID: SGWA-3

Date Collected: 06/26/17 12:55

Date Received: 06/28/17 08:33

Lab Sample ID: 400-139893-3

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			316517	07/06/17 13:43	LDE	TAL SL
Total/NA	Analysis	9315		1	319585	07/28/17 08:04	RTM	TAL SL
Total/NA	Prep	PrecSep_0			316520	07/06/17 14:13	LDE	TAL SL
Total/NA	Analysis	9320		1	317954	07/18/17 10:53	RTM	TAL SL
Total/NA	Analysis	Ra226_Ra228		1	319718	07/28/17 15:26	RTM	TAL SL

Client Sample ID: SGWA-5

Date Collected: 06/26/17 10:25

Date Received: 06/28/17 08:33

Lab Sample ID: 400-139893-4

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			316517	07/06/17 13:43	LDE	TAL SL
Total/NA	Analysis	9315		1	319585	07/28/17 08:04	RTM	TAL SL
Total/NA	Prep	PrecSep_0			316520	07/06/17 14:13	LDE	TAL SL
Total/NA	Analysis	9320		1	317954	07/18/17 10:53	RTM	TAL SL
Total/NA	Analysis	Ra226_Ra228		1	319718	07/28/17 15:26	RTM	TAL SL

Lab Chronicle

Client: Southern Company
Project/Site: CCR - Plant Scherer

TestAmerica Job ID: 400-139893-2
SDG: Ash Pond

Client Sample ID: FB-1(AP)

Lab Sample ID: 400-139893-5

Date Collected: 06/26/17 10:00

Matrix: Water

Date Received: 06/28/17 08:33

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			316517	07/06/17 13:43	LDE	TAL SL
Total/NA	Analysis	9315		1	319585	07/28/17 08:04	RTM	TAL SL
Total/NA	Prep	PrecSep_0			316520	07/06/17 14:13	LDE	TAL SL
Total/NA	Analysis	9320		1	317954	07/18/17 10:53	RTM	TAL SL
Total/NA	Analysis	Ra226_Ra228		1	319718	07/28/17 15:26	RTM	TAL SL

Client Sample ID: SGWA-1

Lab Sample ID: 400-139893-6

Date Collected: 06/26/17 13:50

Matrix: Water

Date Received: 06/28/17 08:33

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			316517	07/06/17 13:43	LDE	TAL SL
Total/NA	Analysis	9315		1	319585	07/28/17 08:04	RTM	TAL SL
Total/NA	Prep	PrecSep_0			316520	07/06/17 14:13	LDE	TAL SL
Total/NA	Analysis	9320		1	317954	07/18/17 10:53	RTM	TAL SL
Total/NA	Analysis	Ra226_Ra228		1	319718	07/28/17 15:26	RTM	TAL SL

Client Sample ID: FD-1(AP)

Lab Sample ID: 400-139893-7

Date Collected: 06/26/17 00:00

Matrix: Water

Date Received: 06/28/17 08:33

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			316517	07/06/17 13:43	LDE	TAL SL
Total/NA	Analysis	9315		1	319585	07/28/17 08:04	RTM	TAL SL
Total/NA	Prep	PrecSep_0			316520	07/06/17 14:13	LDE	TAL SL
Total/NA	Analysis	9320		1	317954	07/18/17 10:53	RTM	TAL SL
Total/NA	Analysis	Ra226_Ra228		1	319718	07/28/17 15:26	RTM	TAL SL

Client Sample ID: SGWA-2

Lab Sample ID: 400-139893-8

Date Collected: 06/26/17 15:30

Matrix: Water

Date Received: 06/28/17 08:33

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			316517	07/06/17 13:43	LDE	TAL SL
Total/NA	Analysis	9315		1	319585	07/28/17 08:04	RTM	TAL SL
Total/NA	Prep	PrecSep_0			316520	07/06/17 14:13	LDE	TAL SL
Total/NA	Analysis	9320		1	317954	07/18/17 10:53	RTM	TAL SL
Total/NA	Analysis	Ra226_Ra228		1	319718	07/28/17 15:26	RTM	TAL SL

Lab Chronicle

Client: Southern Company
Project/Site: CCR - Plant Scherer

TestAmerica Job ID: 400-139893-2
SDG: Ash Pond

Client Sample ID: SGWA-24

Lab Sample ID: 400-139893-9

Date Collected: 06/26/17 14:55

Matrix: Water

Date Received: 06/28/17 08:33

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			316517	07/06/17 13:43	LDE	TAL SL
Total/NA	Analysis	9315		1	319585	07/28/17 08:03	RTM	TAL SL
Total/NA	Prep	PrecSep_0			316520	07/06/17 14:13	LDE	TAL SL
Total/NA	Analysis	9320		1	317954	07/18/17 10:54	RTM	TAL SL
Total/NA	Analysis	Ra226_Ra228		1	319718	07/28/17 15:26	RTM	TAL SL

Client Sample ID: SGWC-22

Lab Sample ID: 400-139893-10

Date Collected: 06/28/17 09:15

Matrix: Water

Date Received: 06/29/17 08:50

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			316517	07/06/17 13:43	LDE	TAL SL
Total/NA	Analysis	9315		1	319585	07/28/17 08:03	RTM	TAL SL
Total/NA	Prep	PrecSep_0			316520	07/06/17 14:13	LDE	TAL SL
Total/NA	Analysis	9320		1	317954	07/18/17 10:54	RTM	TAL SL
Total/NA	Analysis	Ra226_Ra228		1	319718	07/28/17 15:26	RTM	TAL SL

Client Sample ID: SGWC-19

Lab Sample ID: 400-139893-11

Date Collected: 06/28/17 09:10

Matrix: Water

Date Received: 06/29/17 08:50

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			316517	07/06/17 13:43	LDE	TAL SL
Total/NA	Analysis	9315		1	319585	07/28/17 08:03	RTM	TAL SL
Total/NA	Prep	PrecSep_0			316520	07/06/17 14:13	LDE	TAL SL
Total/NA	Analysis	9320		1	317954	07/18/17 10:54	RTM	TAL SL
Total/NA	Analysis	Ra226_Ra228		1	319718	07/28/17 15:26	RTM	TAL SL

Client Sample ID: SGWC-21

Lab Sample ID: 400-139893-12

Date Collected: 06/28/17 09:35

Matrix: Water

Date Received: 06/29/17 08:50

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			316517	07/06/17 13:43	LDE	TAL SL
Total/NA	Analysis	9315		1	319585	07/28/17 08:03	RTM	TAL SL
Total/NA	Prep	PrecSep_0			316520	07/06/17 14:13	LDE	TAL SL
Total/NA	Analysis	9320		1	317954	07/18/17 10:54	RTM	TAL SL
Total/NA	Analysis	Ra226_Ra228		1	319718	07/28/17 15:26	RTM	TAL SL

Lab Chronicle

Client: Southern Company
Project/Site: CCR - Plant Scherer

TestAmerica Job ID: 400-139893-2
SDG: Ash Pond

Client Sample ID: SGWC-23

Lab Sample ID: 400-139893-13

Date Collected: 06/28/17 10:35

Matrix: Water

Date Received: 06/29/17 08:50

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			316517	07/06/17 13:43	LDE	TAL SL
Total/NA	Analysis	9315		1	319585	07/28/17 08:03	RTM	TAL SL
Total/NA	Prep	PrecSep_0			316520	07/06/17 14:13	LDE	TAL SL
Total/NA	Analysis	9320		1	317954	07/18/17 10:55	RTM	TAL SL
Total/NA	Analysis	Ra226_Ra228		1	319718	07/28/17 15:26	RTM	TAL SL

Client Sample ID: SGWC-18

Lab Sample ID: 400-139893-14

Date Collected: 06/28/17 10:15

Matrix: Water

Date Received: 06/29/17 08:50

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			316517	07/06/17 13:43	LDE	TAL SL
Total/NA	Analysis	9315		1	319585	07/28/17 08:03	RTM	TAL SL
Total/NA	Prep	PrecSep_0			316520	07/06/17 14:13	LDE	TAL SL
Total/NA	Analysis	9320		1	317952	07/18/17 10:50	RTM	TAL SL
Total/NA	Analysis	Ra226_Ra228		1	319718	07/28/17 15:26	RTM	TAL SL

Client Sample ID: SGWC-20

Lab Sample ID: 400-139893-15

Date Collected: 06/28/17 11:05

Matrix: Water

Date Received: 06/29/17 08:50

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			316517	07/06/17 13:43	LDE	TAL SL
Total/NA	Analysis	9315		1	319585	07/28/17 08:03	RTM	TAL SL
Total/NA	Prep	PrecSep_0			316520	07/06/17 14:13	LDE	TAL SL
Total/NA	Analysis	9320		1	317952	07/18/17 10:50	RTM	TAL SL
Total/NA	Analysis	Ra226_Ra228		1	319718	07/28/17 15:26	RTM	TAL SL

Client Sample ID: FD-3(AP)

Lab Sample ID: 400-139893-16

Date Collected: 06/28/17 00:00

Matrix: Water

Date Received: 06/29/17 08:50

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			316517	07/06/17 13:43	LDE	TAL SL
Total/NA	Analysis	9315		1	319586	07/28/17 08:13	RTM	TAL SL
Total/NA	Prep	PrecSep_0			316520	07/06/17 14:13	LDE	TAL SL
Total/NA	Analysis	9320		1	317952	07/18/17 10:50	RTM	TAL SL
Total/NA	Analysis	Ra226_Ra228		1	319718	07/28/17 15:26	RTM	TAL SL

Lab Chronicle

Client: Southern Company
Project/Site: CCR - Plant Scherer

TestAmerica Job ID: 400-139893-2
SDG: Ash Pond

Client Sample ID: FB-3(AP)

Lab Sample ID: 400-139893-17

Date Collected: 06/28/17 08:40

Matrix: Water

Date Received: 06/29/17 08:50

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			316517	07/06/17 13:43	LDE	TAL SL
Total/NA	Analysis	9315		1	319586	07/28/17 08:13	RTM	TAL SL
Total/NA	Prep	PrecSep_0			316520	07/06/17 14:13	LDE	TAL SL
Total/NA	Analysis	9320		1	317952	07/18/17 10:50	RTM	TAL SL
Total/NA	Analysis	Ra226_Ra228		1	319718	07/28/17 15:26	RTM	TAL SL

Client Sample ID: EB-3(AP)

Lab Sample ID: 400-139893-18

Date Collected: 06/28/17 11:00

Matrix: Water

Date Received: 06/29/17 08:50

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			316517	07/06/17 13:43	LDE	TAL SL
Total/NA	Analysis	9315		1	319586	07/28/17 08:13	RTM	TAL SL
Total/NA	Prep	PrecSep_0			316520	07/06/17 14:13	LDE	TAL SL
Total/NA	Analysis	9320		1	317952	07/18/17 10:50	RTM	TAL SL
Total/NA	Analysis	Ra226_Ra228		1	319718	07/28/17 15:26	RTM	TAL SL

Client Sample ID: SGWC-7

Lab Sample ID: 400-139893-19

Date Collected: 06/27/17 12:45

Matrix: Water

Date Received: 06/29/17 08:50

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			316483	07/06/17 09:41	LDE	TAL SL
Total/NA	Analysis	9315		1	319586	07/28/17 06:15	RTM	TAL SL
Total/NA	Prep	PrecSep_0			316488	07/06/17 10:09	LDE	TAL SL
Total/NA	Analysis	9320		1	317601	07/17/17 15:11	RTM	TAL SL
Total/NA	Analysis	Ra226_Ra228		1	319718	07/28/17 15:26	RTM	TAL SL

Client Sample ID: SGWC-6

Lab Sample ID: 400-139893-20

Date Collected: 06/27/17 10:25

Matrix: Water

Date Received: 06/29/17 08:50

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			316483	07/06/17 09:41	LDE	TAL SL
Total/NA	Analysis	9315		1	319582	07/28/17 07:52	RTM	TAL SL
Total/NA	Prep	PrecSep_0			316488	07/06/17 10:09	LDE	TAL SL
Total/NA	Analysis	9320		1	317601	07/17/17 15:11	RTM	TAL SL
Total/NA	Analysis	Ra226_Ra228		1	319718	07/28/17 15:26	RTM	TAL SL

Lab Chronicle

Client: Southern Company
Project/Site: CCR - Plant Scherer

TestAmerica Job ID: 400-139893-2
SDG: Ash Pond

Client Sample ID: SGWA-25

Lab Sample ID: 400-139893-21

Date Collected: 06/27/17 09:20

Matrix: Water

Date Received: 06/29/17 08:50

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			316483	07/06/17 09:41	LDE	TAL SL
Total/NA	Analysis	9315		1	319582	07/28/17 07:52	RTM	TAL SL
Total/NA	Prep	PrecSep_0			316488	07/06/17 10:09	LDE	TAL SL
Total/NA	Analysis	9320		1	317601	07/17/17 15:11	RTM	TAL SL
Total/NA	Analysis	Ra226_Ra228		1	319718	07/28/17 15:26	RTM	TAL SL

Client Sample ID: SGWC-17

Lab Sample ID: 400-139893-22

Date Collected: 06/27/17 14:40

Matrix: Water

Date Received: 06/29/17 08:50

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			316483	07/06/17 09:41	LDE	TAL SL
Total/NA	Analysis	9315		1	319582	07/28/17 07:52	RTM	TAL SL
Total/NA	Prep	PrecSep_0			316488	07/06/17 10:09	LDE	TAL SL
Total/NA	Analysis	9320		1	317601	07/17/17 15:11	RTM	TAL SL
Total/NA	Analysis	Ra226_Ra228		1	319718	07/28/17 15:26	RTM	TAL SL

Client Sample ID: SGWC-11

Lab Sample ID: 400-139893-23

Date Collected: 06/27/17 09:20

Matrix: Water

Date Received: 06/29/17 08:50

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			316483	07/06/17 09:41	LDE	TAL SL
Total/NA	Analysis	9315		1	319582	07/28/17 07:52	RTM	TAL SL
Total/NA	Prep	PrecSep_0			316488	07/06/17 10:09	LDE	TAL SL
Total/NA	Analysis	9320		1	317601	07/17/17 15:11	RTM	TAL SL
Total/NA	Analysis	Ra226_Ra228		1	319718	07/28/17 15:26	RTM	TAL SL

Client Sample ID: SGWC-8

Lab Sample ID: 400-139893-24

Date Collected: 06/27/17 09:30

Matrix: Water

Date Received: 06/29/17 08:50

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			316483	07/06/17 09:41	LDE	TAL SL
Total/NA	Analysis	9315		1	319582	07/28/17 07:52	RTM	TAL SL
Total/NA	Prep	PrecSep_0			316488	07/06/17 10:09	LDE	TAL SL
Total/NA	Analysis	9320		1	317601	07/17/17 15:11	RTM	TAL SL
Total/NA	Analysis	Ra226_Ra228		1	319718	07/28/17 15:26	RTM	TAL SL

Lab Chronicle

Client: Southern Company
Project/Site: CCR - Plant Scherer

TestAmerica Job ID: 400-139893-2
SDG: Ash Pond

Client Sample ID: SGWC-12

Lab Sample ID: 400-139893-25

Date Collected: 06/27/17 10:50

Matrix: Water

Date Received: 06/29/17 08:50

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			316483	07/06/17 09:41	LDE	TAL SL
Total/NA	Analysis	9315		1	319582	07/28/17 07:52	RTM	TAL SL
Total/NA	Prep	PrecSep_0			316488	07/06/17 10:09	LDE	TAL SL
Total/NA	Analysis	9320		1	317601	07/17/17 15:11	RTM	TAL SL
Total/NA	Analysis	Ra226_Ra228		1	319718	07/28/17 15:26	RTM	TAL SL

Client Sample ID: SGWC-9

Lab Sample ID: 400-139893-26

Date Collected: 06/27/17 10:50

Matrix: Water

Date Received: 06/29/17 08:50

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			316483	07/06/17 09:41	LDE	TAL SL
Total/NA	Analysis	9315		1	319582	07/28/17 07:52	RTM	TAL SL
Total/NA	Prep	PrecSep_0			316488	07/06/17 10:09	LDE	TAL SL
Total/NA	Analysis	9320		1	317601	07/17/17 15:11	RTM	TAL SL
Total/NA	Analysis	Ra226_Ra228		1	319718	07/28/17 15:26	RTM	TAL SL

Client Sample ID: SGWC-13

Lab Sample ID: 400-139893-27

Date Collected: 06/27/17 11:55

Matrix: Water

Date Received: 06/29/17 08:50

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			316483	07/06/17 09:41	LDE	TAL SL
Total/NA	Analysis	9315		1	319582	07/28/17 07:52	RTM	TAL SL
Total/NA	Prep	PrecSep_0			316488	07/06/17 10:09	LDE	TAL SL
Total/NA	Analysis	9320		1	317601	07/17/17 15:10	RTM	TAL SL
Total/NA	Analysis	Ra226_Ra228		1	319718	07/28/17 15:26	RTM	TAL SL

Client Sample ID: FD-2

Lab Sample ID: 400-139893-28

Date Collected: 06/27/17 00:00

Matrix: Water

Date Received: 06/29/17 08:50

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			316483	07/06/17 09:41	LDE	TAL SL
Total/NA	Analysis	9315		1	319582	07/28/17 07:52	RTM	TAL SL
Total/NA	Prep	PrecSep_0			316488	07/06/17 10:09	LDE	TAL SL
Total/NA	Analysis	9320		1	317601	07/17/17 15:10	RTM	TAL SL
Total/NA	Analysis	Ra226_Ra228		1	319718	07/28/17 15:26	RTM	TAL SL

Lab Chronicle

Client: Southern Company
Project/Site: CCR - Plant Scherer

TestAmerica Job ID: 400-139893-2
SDG: Ash Pond

Client Sample ID: FB-2(AP)

Lab Sample ID: 400-139893-29

Date Collected: 06/27/17 08:50

Matrix: Water

Date Received: 06/29/17 08:50

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			316483	07/06/17 09:41	LDE	TAL SL
Total/NA	Analysis	9315		1	319582	07/28/17 07:51	RTM	TAL SL
Total/NA	Prep	PrecSep_0			316488	07/06/17 10:09	LDE	TAL SL
Total/NA	Analysis	9320		1	317601	07/17/17 15:10	RTM	TAL SL
Total/NA	Analysis	Ra226_Ra228		1	319718	07/28/17 15:26	RTM	TAL SL

Client Sample ID: EB-2(AP)

Lab Sample ID: 400-139893-30

Date Collected: 06/27/17 15:20

Matrix: Water

Date Received: 06/29/17 08:50

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			316483	07/06/17 09:41	LDE	TAL SL
Total/NA	Analysis	9315		1	319582	07/28/17 07:51	RTM	TAL SL
Total/NA	Prep	PrecSep_0			316488	07/06/17 10:09	LDE	TAL SL
Total/NA	Analysis	9320		1	317601	07/17/17 15:10	RTM	TAL SL
Total/NA	Analysis	Ra226_Ra228		1	319718	07/28/17 15:26	RTM	TAL SL

Client Sample ID: SGWC-10

Lab Sample ID: 400-139893-31

Date Collected: 06/27/17 13:45

Matrix: Water

Date Received: 06/29/17 08:50

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			316483	07/06/17 09:41	LDE	TAL SL
Total/NA	Analysis	9315		1	319582	07/28/17 07:51	RTM	TAL SL
Total/NA	Prep	PrecSep_0			316488	07/06/17 10:09	LDE	TAL SL
Total/NA	Analysis	9320		1	317601	07/17/17 15:10	RTM	TAL SL
Total/NA	Analysis	Ra226_Ra228		1	319718	07/28/17 15:26	RTM	TAL SL

Client Sample ID: SGWC-14

Lab Sample ID: 400-139893-32

Date Collected: 06/27/17 13:55

Matrix: Water

Date Received: 06/29/17 08:50

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			316483	07/06/17 09:41	LDE	TAL SL
Total/NA	Analysis	9315		1	319582	07/28/17 07:51	RTM	TAL SL
Total/NA	Prep	PrecSep_0			316488	07/06/17 10:09	LDE	TAL SL
Total/NA	Analysis	9320		1	317601	07/17/17 15:10	RTM	TAL SL
Total/NA	Analysis	Ra226_Ra228		1	319718	07/28/17 15:26	RTM	TAL SL

Lab Chronicle

Client: Southern Company
Project/Site: CCR - Plant Scherer

TestAmerica Job ID: 400-139893-2
SDG: Ash Pond

Client Sample ID: SGWC-15

Lab Sample ID: 400-139893-33

Date Collected: 06/27/17 14:55

Matrix: Water

Date Received: 06/29/17 08:50

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			316483	07/06/17 09:41	LDE	TAL SL
Total/NA	Analysis	9315		1	319582	07/28/17 07:51	RTM	TAL SL
Total/NA	Prep	PrecSep_0			316488	07/06/17 10:09	LDE	TAL SL
Total/NA	Analysis	9320		1	317601	07/17/17 15:10	RTM	TAL SL
Total/NA	Analysis	Ra226_Ra228		1	319718	07/28/17 15:26	RTM	TAL SL

Client Sample ID: SGWC-16

Lab Sample ID: 400-139893-34

Date Collected: 06/27/17 15:20

Matrix: Water

Date Received: 06/29/17 08:50

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			316483	07/06/17 09:41	LDE	TAL SL
Total/NA	Analysis	9315		1	319582	07/28/17 07:51	RTM	TAL SL
Total/NA	Prep	PrecSep_0			316488	07/06/17 10:09	LDE	TAL SL
Total/NA	Analysis	9320		1	317601	07/17/17 15:10	RTM	TAL SL
Total/NA	Analysis	Ra226_Ra228		1	319718	07/28/17 15:26	RTM	TAL SL

Laboratory References:

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

QC Association Summary

Client: Southern Company
Project/Site: CCR - Plant Scherer

TestAmerica Job ID: 400-139893-2
SDG: Ash Pond

Rad

Prep Batch: 316483

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-139893-19	SGWC-7	Total/NA	Water	PrecSep-21	
400-139893-20	SGWC-6	Total/NA	Water	PrecSep-21	
400-139893-21	SGWA-25	Total/NA	Water	PrecSep-21	
400-139893-22	SGWC-17	Total/NA	Water	PrecSep-21	
400-139893-23	SGWC-11	Total/NA	Water	PrecSep-21	
400-139893-24	SGWC-8	Total/NA	Water	PrecSep-21	
400-139893-25	SGWC-12	Total/NA	Water	PrecSep-21	
400-139893-26	SGWC-9	Total/NA	Water	PrecSep-21	
400-139893-27	SGWC-13	Total/NA	Water	PrecSep-21	
400-139893-28	FD-2	Total/NA	Water	PrecSep-21	
400-139893-29	FB-2(AP)	Total/NA	Water	PrecSep-21	
400-139893-30	EB-2(AP)	Total/NA	Water	PrecSep-21	
400-139893-31	SGWC-10	Total/NA	Water	PrecSep-21	
400-139893-32	SGWC-14	Total/NA	Water	PrecSep-21	
400-139893-33	SGWC-15	Total/NA	Water	PrecSep-21	
400-139893-34	SGWC-16	Total/NA	Water	PrecSep-21	
MB 160-316483/1-A	Method Blank	Total/NA	Water	PrecSep-21	
LCS 160-316483/2-A	Lab Control Sample	Total/NA	Water	PrecSep-21	
400-139893-24 DU	SGWC-8	Total/NA	Water	PrecSep-21	

Prep Batch: 316488

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-139893-19	SGWC-7	Total/NA	Water	PrecSep_0	
400-139893-20	SGWC-6	Total/NA	Water	PrecSep_0	
400-139893-21	SGWA-25	Total/NA	Water	PrecSep_0	
400-139893-22	SGWC-17	Total/NA	Water	PrecSep_0	
400-139893-23	SGWC-11	Total/NA	Water	PrecSep_0	
400-139893-24	SGWC-8	Total/NA	Water	PrecSep_0	
400-139893-25	SGWC-12	Total/NA	Water	PrecSep_0	
400-139893-26	SGWC-9	Total/NA	Water	PrecSep_0	
400-139893-27	SGWC-13	Total/NA	Water	PrecSep_0	
400-139893-28	FD-2	Total/NA	Water	PrecSep_0	
400-139893-29	FB-2(AP)	Total/NA	Water	PrecSep_0	
400-139893-30	EB-2(AP)	Total/NA	Water	PrecSep_0	
400-139893-31	SGWC-10	Total/NA	Water	PrecSep_0	
400-139893-32	SGWC-14	Total/NA	Water	PrecSep_0	
400-139893-33	SGWC-15	Total/NA	Water	PrecSep_0	
400-139893-34	SGWC-16	Total/NA	Water	PrecSep_0	
MB 160-316488/1-A	Method Blank	Total/NA	Water	PrecSep_0	
LCS 160-316488/2-A	Lab Control Sample	Total/NA	Water	PrecSep_0	
400-139893-24 DU	SGWC-8	Total/NA	Water	PrecSep_0	

Prep Batch: 316517

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-139893-1	SGWA-4	Total/NA	Water	PrecSep-21	
400-139893-2	EB-1(AP)	Total/NA	Water	PrecSep-21	
400-139893-3	SGWA-3	Total/NA	Water	PrecSep-21	
400-139893-4	SGWA-5	Total/NA	Water	PrecSep-21	
400-139893-5	FB-1(AP)	Total/NA	Water	PrecSep-21	
400-139893-6	SGWA-1	Total/NA	Water	PrecSep-21	
400-139893-7	FD-1(AP)	Total/NA	Water	PrecSep-21	

TestAmerica Pensacola

QC Association Summary

Client: Southern Company
Project/Site: CCR - Plant Scherer

TestAmerica Job ID: 400-139893-2
SDG: Ash Pond

Rad (Continued)

Prep Batch: 316517 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-139893-8	SGWA-2	Total/NA	Water	PrecSep-21	
400-139893-9	SGWA-24	Total/NA	Water	PrecSep-21	
400-139893-10	SGWC-22	Total/NA	Water	PrecSep-21	
400-139893-11	SGWC-19	Total/NA	Water	PrecSep-21	
400-139893-12	SGWC-21	Total/NA	Water	PrecSep-21	
400-139893-13	SGWC-23	Total/NA	Water	PrecSep-21	
400-139893-14	SGWC-18	Total/NA	Water	PrecSep-21	
400-139893-15	SGWC-20	Total/NA	Water	PrecSep-21	
400-139893-16	FD-3(AP)	Total/NA	Water	PrecSep-21	
400-139893-17	FB-3(AP)	Total/NA	Water	PrecSep-21	
400-139893-18	EB-3(AP)	Total/NA	Water	PrecSep-21	
MB 160-316517/1-A	Method Blank	Total/NA	Water	PrecSep-21	
LCS 160-316517/2-A	Lab Control Sample	Total/NA	Water	PrecSep-21	
400-139893-9 DU	SGWA-24	Total/NA	Water	PrecSep-21	
400-139893-10 DU	SGWC-22	Total/NA	Water	PrecSep-21	

Prep Batch: 316520

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-139893-1	SGWA-4	Total/NA	Water	PrecSep_0	
400-139893-2	EB-1(AP)	Total/NA	Water	PrecSep_0	
400-139893-3	SGWA-3	Total/NA	Water	PrecSep_0	
400-139893-4	SGWA-5	Total/NA	Water	PrecSep_0	
400-139893-5	FB-1(AP)	Total/NA	Water	PrecSep_0	
400-139893-6	SGWA-1	Total/NA	Water	PrecSep_0	
400-139893-7	FD-1(AP)	Total/NA	Water	PrecSep_0	
400-139893-8	SGWA-2	Total/NA	Water	PrecSep_0	
400-139893-9	SGWA-24	Total/NA	Water	PrecSep_0	
400-139893-10	SGWC-22	Total/NA	Water	PrecSep_0	
400-139893-11	SGWC-19	Total/NA	Water	PrecSep_0	
400-139893-12	SGWC-21	Total/NA	Water	PrecSep_0	
400-139893-13	SGWC-23	Total/NA	Water	PrecSep_0	
400-139893-14	SGWC-18	Total/NA	Water	PrecSep_0	
400-139893-15	SGWC-20	Total/NA	Water	PrecSep_0	
400-139893-16	FD-3(AP)	Total/NA	Water	PrecSep_0	
400-139893-17	FB-3(AP)	Total/NA	Water	PrecSep_0	
400-139893-18	EB-3(AP)	Total/NA	Water	PrecSep_0	
MB 160-316520/1-A	Method Blank	Total/NA	Water	PrecSep_0	
LCS 160-316520/2-A	Lab Control Sample	Total/NA	Water	PrecSep_0	
400-139893-9 DU	SGWA-24	Total/NA	Water	PrecSep_0	
400-139893-10 DU	SGWC-22	Total/NA	Water	PrecSep_0	

QC Sample Results

Client: Southern Company
Project/Site: CCR - Plant Scherer

TestAmerica Job ID: 400-139893-2
SDG: Ash Pond

Method: 9315 - Radium-226 (GFPC)

Lab Sample ID: MB 160-316483/1-A
Matrix: Water
Analysis Batch: 319586

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 316483

Analyte	MB MB		Count	Total	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
	Result	Qualifier	Uncert. (2σ+/-)	Uncert. (2σ+/-)						
Radium-226	-0.02087	U	0.0459	0.0460	1.00	0.107	pCi/L	07/06/17 09:41	07/28/17 06:15	1
Carrier	MB MB		Limits			Prepared	Analyzed	Dil Fac		
Ba Carrier	%Yield	Qualifier		Prepared	Analyzed					
Ba Carrier	96.2		40 - 110	07/06/17 09:41	07/28/17 06:15	1				

Lab Sample ID: LCS 160-316483/2-A
Matrix: Water
Analysis Batch: 319586

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 316483

Analyte	Spike Added	LCS Result	LCS Qual	Total	RL	MDC	Unit	%Rec	%Rec. Limits
				Uncert. (2σ+/-)					
Radium-226	11.4	9.695		1.03	1.00	0.0998	pCi/L	85	68 - 137
Carrier	LCS LCS		Limits			Prepared	Analyzed	Dil Fac	
Ba Carrier	%Yield	Qualifier		Prepared	Analyzed				
Ba Carrier	88.2		40 - 110	07/06/17 09:41	07/28/17 06:15	1			

Lab Sample ID: 400-139893-24 DU
Matrix: Water
Analysis Batch: 319582

Client Sample ID: SGWC-8
Prep Type: Total/NA
Prep Batch: 316483

Analyte	Sample Sample		DU	DU	Total	RL	MDC	Unit	RER	RER Limit
	Result	Qual	Result	Qual	Uncert. (2σ+/-)					
Radium-226	0.440		0.3535		0.109	1.00	0.0879	pCi/L	0.38	1
Carrier	DU DU		Limits			Prepared	Analyzed	Dil Fac		
Ba Carrier	%Yield	Qualifier		Prepared	Analyzed					
Ba Carrier	99.4		40 - 110	07/06/17 13:43	07/28/17 07:49	1				

Lab Sample ID: MB 160-316517/1-A
Matrix: Water
Analysis Batch: 319582

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 316517

Analyte	MB MB		Count	Total	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
	Result	Qualifier	Uncert. (2σ+/-)	Uncert. (2σ+/-)						
Radium-226	0.01010	U	0.0396	0.0396	1.00	0.0795	pCi/L	07/06/17 13:43	07/28/17 07:49	1
Carrier	MB MB		Limits			Prepared	Analyzed	Dil Fac		
Ba Carrier	%Yield	Qualifier		Prepared	Analyzed					
Ba Carrier	95.6		40 - 110	07/06/17 13:43	07/28/17 07:49	1				

Lab Sample ID: LCS 160-316517/2-A
Matrix: Water
Analysis Batch: 319585

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 316517

Analyte	Spike Added	LCS Result	LCS Qual	Total	RL	MDC	Unit	%Rec	%Rec. Limits
				Uncert. (2σ+/-)					
Radium-226	11.4	10.08		1.05	1.00	0.0677	pCi/L	89	68 - 137

TestAmerica Pensacola

QC Sample Results

Client: Southern Company
Project/Site: CCR - Plant Scherer

TestAmerica Job ID: 400-139893-2
SDG: Ash Pond

Method: 9315 - Radium-226 (GFPC) (Continued)

Lab Sample ID: LCS 160-316517/2-A
Matrix: Water
Analysis Batch: 319585

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 316517

	LCS	LCS	
Carrier	%Yield	Qualifier	Limits
Ba Carrier	95.0		40 - 110

Lab Sample ID: 400-139893-9 DU
Matrix: Water
Analysis Batch: 319585

Client Sample ID: SGWA-24
Prep Type: Total/NA
Prep Batch: 316517

Analyte	Sample Result	Sample Qual	DU Result	DU Qual	Total Uncert. (2σ+/-)	RL	MDC	Unit	RER	RER Limit
Radium-226	0.0405	U	0.03779	U	0.0530	1.00	0.0897	pCi/L	0.02	1

	DU	DU	
Carrier	%Yield	Qualifier	Limits
Ba Carrier	92.6		40 - 110

Lab Sample ID: 400-139893-10 DU
Matrix: Water
Analysis Batch: 319585

Client Sample ID: SGWC-22
Prep Type: Total/NA
Prep Batch: 316517

Analyte	Sample Result	Sample Qual	DU Result	DU Qual	Total Uncert. (2σ+/-)	RL	MDC	Unit	RER	RER Limit
Radium-226	0.0291	U	0.03409	U	0.0497	1.00	0.0848	pCi/L	0.05	1

	DU	DU	
Carrier	%Yield	Qualifier	Limits
Ba Carrier	97.9		40 - 110

Method: 9320 - Radium-228 (GFPC)

Lab Sample ID: MB 160-316488/1-A
Matrix: Water
Analysis Batch: 317601

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 316488

Analyte	MB Result	MB Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	-0.08388	U	0.155	0.155	1.00	0.296	pCi/L	07/06/17 10:09	07/17/17 15:12	1

	MB	MB	Limits	Prepared	Analyzed	Dil Fac
Carrier	%Yield	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Ba Carrier	96.2		40 - 110	07/06/17 10:09	07/17/17 15:12	1
Y Carrier	103		40 - 110	07/06/17 10:09	07/17/17 15:12	1

Lab Sample ID: LCS 160-316488/2-A
Matrix: Water
Analysis Batch: 317601

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 316488

Analyte	Spike Added	LCS Result	LCS Qual	Total Uncert. (2σ+/-)	RL	MDC	Unit	%Rec	%Rec. Limits
Radium-228	13.2	13.35		1.43	1.00	0.289	pCi/L	101	56 - 140

TestAmerica Pensacola

QC Sample Results

Client: Southern Company
Project/Site: CCR - Plant Scherer

TestAmerica Job ID: 400-139893-2
SDG: Ash Pond

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

Lab Sample ID: LCS 160-316488/2-A
Matrix: Water
Analysis Batch: 317601

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 316488

Carrier	LCS %Yield	LCS Qualifier	Limits
Ba Carrier	88.2		40 - 110
Y Carrier	104		40 - 110

Lab Sample ID: 400-139893-24 DU
Matrix: Water
Analysis Batch: 317601

Client Sample ID: SGWC-8
Prep Type: Total/NA
Prep Batch: 316488

Analyte	Sample Result	Sample Qual	DU Result	DU Qual	Total Uncert. (2σ+/-)	RL	MDC	Unit	RER	RER Limit
Radium-228	1.63		1.519		0.316	1.00	0.296	pCi/L	0.18	1

Carrier	DU %Yield	DU Qualifier	Limits
Ba Carrier	99.4		40 - 110
Y Carrier	101		40 - 110

Lab Sample ID: MB 160-316520/1-A
Matrix: Water
Analysis Batch: 317954

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 316520

Analyte	MB Result	MB Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.1767	U	0.196	0.197	1.00	0.322	pCi/L	07/06/17 14:13	07/18/17 10:52	1

Carrier	MB %Yield	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
Ba Carrier	95.6		40 - 110	07/06/17 14:13	07/18/17 10:52	1
Y Carrier	93.6		40 - 110	07/06/17 14:13	07/18/17 10:52	1

Lab Sample ID: LCS 160-316520/2-A
Matrix: Water
Analysis Batch: 317954

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 316520

Analyte	Spike Added	LCS Result	LCS Qual	Total Uncert. (2σ+/-)	RL	MDC	Unit	%Rec	%Rec. Limits
Radium-228	13.2	15.25		1.61	1.00	0.351	pCi/L	116	56 - 140

Carrier	LCS %Yield	LCS Qualifier	Limits
Ba Carrier	95.0		40 - 110
Y Carrier	88.5		40 - 110

Lab Sample ID: 400-139893-9 DU
Matrix: Water
Analysis Batch: 317954

Client Sample ID: SGWA-24
Prep Type: Total/NA
Prep Batch: 316520

Analyte	Sample Result	Sample Qual	DU Result	DU Qual	Total Uncert. (2σ+/-)	RL	MDC	Unit	RER	RER Limit
Radium-228	-0.297	U	0.1636	U F	0.204	1.00	0.337	pCi/L	1.16	1

TestAmerica Pensacola

QC Sample Results

Client: Southern Company
Project/Site: CCR - Plant Scherer

TestAmerica Job ID: 400-139893-2
SDG: Ash Pond

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

Lab Sample ID: 400-139893-9 DU
Matrix: Water
Analysis Batch: 317954

Client Sample ID: SGWA-24
Prep Type: Total/NA
Prep Batch: 316520

	DU	DU	
Carrier	%Yield	Qualifier	Limits
Ba Carrier	92.6		40 - 110
Y Carrier	81.4		40 - 110

Lab Sample ID: 400-139893-10 DU
Matrix: Water
Analysis Batch: 317954

Client Sample ID: SGWC-22
Prep Type: Total/NA
Prep Batch: 316520

Analyte	Sample Result	Sample Qual	DU Result	DU Qual	Total Uncert. (2σ+/-)	RL	MDC	Unit	RER	RER
										Limit
Radium-228	0.0553	U	0.1801	U	0.215	1.00	0.353	pCi/L	0.33	1

	DU	DU	
Carrier	%Yield	Qualifier	Limits
Ba Carrier	97.9		40 - 110
Y Carrier	82.1		40 - 110

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

Lab Sample ID: 400-139893-9 DU
Matrix: Water
Analysis Batch: 319718

Client Sample ID: SGWA-24
Prep Type: Total/NA

Analyte	Sample Result	Sample Qual	DU Result	DU Qual	Total Uncert. (2σ+/-)	RL	MDC	Unit	RER	RER
									Limit	
Combined Radium 226 + 228	-0.257	U	0.2013	U	0.211	5.00	0.337	pCi/L	1.11	

Lab Sample ID: 400-139893-10 DU
Matrix: Water
Analysis Batch: 319718

Client Sample ID: SGWC-22
Prep Type: Total/NA

Analyte	Sample Result	Sample Qual	DU Result	DU Qual	Total Uncert. (2σ+/-)	RL	MDC	Unit	RER	RER
									Limit	
Combined Radium 226 + 228	0.0844	U	0.2142	U	0.220	5.00	0.353	pCi/L	0.33	

Lab Sample ID: 400-139893-24 DU
Matrix: Water
Analysis Batch: 319718

Client Sample ID: SGWC-8
Prep Type: Total/NA

Analyte	Sample Result	Sample Qual	DU Result	DU Qual	Total Uncert. (2σ+/-)	RL	MDC	Unit	RER	RER
									Limit	
Combined Radium 226 + 228	2.07		1.872		0.334	5.00	0.296	pCi/L	0.30	

Chain of Custody Record

THE TESTER'S SIGNATURE MUST BE OBTAINED

Client Information		Lab FM:		Carrier Tracking No(s):				
Sampler: Ben Hodges Client Contact: Joju Abraham Company: Southern Company Address: 241 Ralph McGill Blvd SE B10185 City: Atlanta State, Zip: GA, 30308 Phone: Email: JAbraham@southernco.com Project #: 40007041 SSO#: Ash Pond		Whitmire, Cheyenne R E-Mail: cheyenne.whitmire@testamericainc.com		COC No: 400-57303-24790 Page: 1 of 1 Job #:				
Due Date Requested:		Analysis Requested						
TAT Requested (days):		2540C-TDS, 300_ORGFM_28D-Chloride, Fluoride, Sulfate 8020-Sb, As, Ba, B, Be, Cd, Cr, Co, Pb, Li, Mn, Se, Ti, 1470A-Hg 9315_Ra226, 9320_Ra228, Ra226Ra228, GPC						
PO #:		Total Number of Containers: 4 Extra Radium:						
WC #:		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 Other:						
Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=Grab)	Matrix (Water, Brackish, Onestock, ST=Steam, Air)	Field Filtered Sample (Yes or No)	Form MS/MSD (Yes or No)	Perform MS/MSD (Yes or No)	Special Instructions/Note:
SGWC-22	6/28/17	0915	G	Water	N	N	N	
SGWC-19	6/28/17	0910	G	Water	N	N	N	
SGWC-21	6/28/17	0935	G	Water	N	N	N	
SGWC-23	6/28/17	1035	G	Water	N	N	N	
SGWC-18	6/28/17	1015	G	Water	N	N	N	
SGWC-20	6/28/17	1105	G	Water	N	N	N	
FB-3(AP)	6/28/17	--	G	Water	N	N	N	
FB-3(AP)	6/28/17	0840	G	Water	N	N	N	
EB-3(AP)	6/28/17	1100	G	Water	N	N	N	

Possible Hazard Identification
 Non-Hazard Flammable Skin Irritant Poison B Unknown Radiological
 Deliverable Requested: I, II, III, IV, Other (specify)

Empty Kit Relinquished by: _____ Date: _____
 Relinquished by: *Danica Yarra* Date/Time: 6/28/17 1520 Company: Collier
 Relinquished by: _____ Date/Time: 6/28/17 1520 Company: _____
 Relinquished by: _____ Date/Time: 6/28/17 0850 Company: _____

Custody Seals Intact: Yes No **Custody Seal No.:** _____
 Cooler Temperature (g, 5 min, Other, Remarks): _____



Chain of Custody Record

Client Information		Lab P/N: Whitfire, Cheyenne R		Carrier Tracking No(s):		COC No: 400-57303-24780																																																																																																																																																													
Client Contact: Ben Hodges		E-Mail: cheyenne.whitfire@testamericainc.com		Job #:		Page: 1 of 2																																																																																																																																																													
Company: Southern Company		Due Date Requested:		Analysis Requested																																																																																																																																																															
Address: 241 Ralph McGill Blvd SE B10185		TAT Requested (days):																																																																																																																																																																	
City: Atlanta																																																																																																																																																																			
State, Zip: GA, 30308																																																																																																																																																																			
Phone:																																																																																																																																																																			
Email: JAbraham@southernco.com																																																																																																																																																																			
Project #: 40007041				<table border="1" style="width:100%; border-collapse: collapse;"> <tr> <th>Sample Identification</th> <th>Sample Date</th> <th>Sample Time</th> <th>Sample Type (C=comp, G=grab)</th> <th>Matrix (Water, Solid, Other)</th> <th>Field Filtered Sample (Yes or No)</th> <th>Perform MS/MSD (Yes or No)</th> <th>2640C-TDS, 300_ORGFM_28D-Chloride, Fluoride, Sulfate</th> <th>6020-Sb,As,Pa,Ba,Bi,Cd,Cr,Cu,Pb,LI,Mo,Sr,Tl, 7470A-Hg</th> <th>9316_Ra228, 9320_Ra228, Ra226Ra228_GFPc</th> <th>Total Number of Containers</th> <th>Special Instructions/Note:</th> </tr> <tr> <td>SGWC-7</td> <td>6/27/17</td> <td>1245</td> <td>G</td> <td>Water</td> <td>N</td> <td>1</td> <td>1</td> <td>1</td> <td>1</td> <td>3</td> <td></td> </tr> <tr> <td>SGWC-6</td> <td>6/27/17</td> <td>1025</td> <td>G</td> <td>Water</td> <td>N</td> <td>1</td> <td>1</td> <td>1</td> <td>1</td> <td>3</td> <td></td> </tr> <tr> <td>SGWA-25</td> <td>6/27/17</td> <td>0920</td> <td>G</td> <td>Water</td> <td>N</td> <td>1</td> <td>1</td> <td>1</td> <td>1</td> <td>3</td> <td></td> </tr> <tr> <td>SGWC-17</td> <td>6/27/17</td> <td>1440</td> <td>G</td> <td>Water</td> <td>N</td> <td>1</td> <td>1</td> <td>1</td> <td>1</td> <td>3</td> <td></td> </tr> <tr> <td>SGWC-11</td> <td>6/27/17</td> <td>0920</td> <td>G</td> <td>Water</td> <td>N</td> <td>1</td> <td>1</td> <td>1</td> <td>1</td> <td>3</td> <td></td> </tr> <tr> <td>SGWC-8</td> <td>6/27/17</td> <td>0930</td> <td>G</td> <td>Water</td> <td>N</td> <td>1</td> <td>1</td> <td>1</td> <td>2</td> <td>4</td> <td>Extra Radium</td> </tr> <tr> <td>SGWC-12</td> <td>6/27/17</td> <td>1050</td> <td>G</td> <td>Water</td> <td>N</td> <td>1</td> <td>1</td> <td>1</td> <td>1</td> <td>3</td> <td></td> </tr> <tr> <td>SGWC-9</td> <td>6/27/17</td> <td>1050</td> <td>G</td> <td>Water</td> <td>N</td> <td>1</td> <td>1</td> <td>1</td> <td>1</td> <td>3</td> <td></td> </tr> <tr> <td>SGWC-13</td> <td>6/27/17</td> <td>1155</td> <td>G</td> <td>Water</td> <td>N</td> <td>1</td> <td>1</td> <td>1</td> <td>1</td> <td>3</td> <td></td> </tr> <tr> <td>FD-2</td> <td>6/27/17</td> <td>--</td> <td>G</td> <td>Water</td> <td>N</td> <td>1</td> <td>1</td> <td>1</td> <td>1</td> <td>3</td> <td></td> </tr> <tr> <td>FB-2(AP)</td> <td>6/27/17</td> <td>0850</td> <td>G</td> <td>Water</td> <td>N</td> <td>1</td> <td>1</td> <td>1</td> <td>1</td> <td>3</td> <td></td> </tr> <tr> <td>EB-2(AP)</td> <td>6/27/17</td> <td>1520</td> <td>G</td> <td>Water</td> <td>N</td> <td>1</td> <td>1</td> <td>1</td> <td>1</td> <td>3</td> <td></td> </tr> </table>				Sample Identification	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (Water, Solid, Other)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	2640C-TDS, 300_ORGFM_28D-Chloride, Fluoride, Sulfate	6020-Sb,As,Pa,Ba,Bi,Cd,Cr,Cu,Pb,LI,Mo,Sr,Tl, 7470A-Hg	9316_Ra228, 9320_Ra228, Ra226Ra228_GFPc	Total Number of Containers	Special Instructions/Note:	SGWC-7	6/27/17	1245	G	Water	N	1	1	1	1	3		SGWC-6	6/27/17	1025	G	Water	N	1	1	1	1	3		SGWA-25	6/27/17	0920	G	Water	N	1	1	1	1	3		SGWC-17	6/27/17	1440	G	Water	N	1	1	1	1	3		SGWC-11	6/27/17	0920	G	Water	N	1	1	1	1	3		SGWC-8	6/27/17	0930	G	Water	N	1	1	1	2	4	Extra Radium	SGWC-12	6/27/17	1050	G	Water	N	1	1	1	1	3		SGWC-9	6/27/17	1050	G	Water	N	1	1	1	1	3		SGWC-13	6/27/17	1155	G	Water	N	1	1	1	1	3		FD-2	6/27/17	--	G	Water	N	1	1	1	1	3		FB-2(AP)	6/27/17	0850	G	Water	N	1	1	1	1	3		EB-2(AP)	6/27/17	1520	G	Water	N	1	1	1	1	3	
Sample Identification	Sample Date	Sample Time	Sample Type (C=comp, G=grab)					Matrix (Water, Solid, Other)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	2640C-TDS, 300_ORGFM_28D-Chloride, Fluoride, Sulfate	6020-Sb,As,Pa,Ba,Bi,Cd,Cr,Cu,Pb,LI,Mo,Sr,Tl, 7470A-Hg	9316_Ra228, 9320_Ra228, Ra226Ra228_GFPc	Total Number of Containers	Special Instructions/Note:																																																																																																																																																				
SGWC-7	6/27/17	1245	G					Water	N	1	1	1	1	3																																																																																																																																																					
SGWC-6	6/27/17	1025	G					Water	N	1	1	1	1	3																																																																																																																																																					
SGWA-25	6/27/17	0920	G					Water	N	1	1	1	1	3																																																																																																																																																					
SGWC-17	6/27/17	1440	G					Water	N	1	1	1	1	3																																																																																																																																																					
SGWC-11	6/27/17	0920	G					Water	N	1	1	1	1	3																																																																																																																																																					
SGWC-8	6/27/17	0930	G					Water	N	1	1	1	2	4	Extra Radium																																																																																																																																																				
SGWC-12	6/27/17	1050	G					Water	N	1	1	1	1	3																																																																																																																																																					
SGWC-9	6/27/17	1050	G					Water	N	1	1	1	1	3																																																																																																																																																					
SGWC-13	6/27/17	1155	G					Water	N	1	1	1	1	3																																																																																																																																																					
FD-2	6/27/17	--	G					Water	N	1	1	1	1	3																																																																																																																																																					
FB-2(AP)	6/27/17	0850	G	Water	N	1	1	1	1	3																																																																																																																																																									
EB-2(AP)	6/27/17	1520	G	Water	N	1	1	1	1	3																																																																																																																																																									
Possible Hazard Identification		Date: 6/28/17 0800		Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)																																																																																																																																																															
<input type="checkbox"/> Non-Hazard <input type="checkbox"/> Flammable <input type="checkbox"/> Skin Irritant <input type="checkbox"/> Poison B <input type="checkbox"/> Unknown <input type="checkbox"/> Radiological		Date: 6/28/17 0950		<input type="checkbox"/> Return To Client <input type="checkbox"/> Disposal By Lab <input type="checkbox"/> Archive For _____ Months																																																																																																																																																															
Deliverable Requested: I, II, III, IV, Other (specify)		Date: 6/28/17 1600		Special Instructions/QC Requirements:																																																																																																																																																															
Empty Kit Relinquished by: Ben Hodges		Date: 6/28/17 0800		Method of Shipment:																																																																																																																																																															
Relinquished by: T Elrod		Date: 6/28/17 0950		Received by: T Elrod																																																																																																																																																															
Relinquished by: T Elrod		Date: 6/28/17 1600		Received by: T Elrod																																																																																																																																																															
Custody Seal Intact: <input type="checkbox"/> Yes <input type="checkbox"/> No		Custody Seal No.:		Cooling Temperature: _____ and Other Remarks: _____																																																																																																																																																															



Chain of Custody Record

Client Information		Lab PIN: Whitmire, Cheyenne R		Carrier Tracking No(s):		COC No: 400-57303-24790		
Client Contact: Joju Abraham		E-Mail: cheyenne.whitmire@testamericainc.com		Page: 2 of 2		Job #:		
Company: Southern Company		Analysis Requested						
Address: 241 Ralph McGill Blvd SE B10185		Due Date Requested:		Perform MS/MSD (Yes or No)		Total Number of Containers		
City: Atlanta		TAT Requested (days):		Field Filtered Sample (Yes or No)		Special Instructions/Note:		
State, Zip: GA, 30308		PO #:		9315_Ra228, 9320_Ra228, Ra226Ra228_GFCP		M - Hexane N - None O - As/NaO2 P - Na2O4S Q - Na2SO3 R - Na2SO4 S - H2SO4 T - TSP Dodecahydrate U - Acetone V - MCAA W - ph 4-5 X - EDTA Y - EDA Z - other (specify)		
Email: JAbraham@southernco.com		WO #:		6020-Sb,As, Ba, B, Be, Ca, Cd, Cr, Co, Pb, Li, Mo, Se, Ti, T470A-Hg		Other:		
Project Name: CCR - Scherer		Project #: 40007041		2540C-TDS, 300_ORGM, 28D-Chloride, Fluoride, Sulfate				
Site: Ash Pond		SSOW#:						
Sample Identification	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Preservation Code:	MATRIX (Water, Seawater, Urine, Blood, etc.)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	Special Instructions/Note:
SGWC-10	6/27/17	1345	G	Water	Water	N	1	3
SGWC-14	6/27/17	1355	G	Water	Water	N	1	3
SGWC-15	6/27/17	1455	G	Water	Water	N	1	3
SGWC-16	6/27/17	1520	G	Water	Water	N	1	3
<p>Possible Hazard Identification <input type="checkbox"/> Non-Hazard <input type="checkbox"/> Flammable <input type="checkbox"/> Skin Irritant <input type="checkbox"/> Poison B <input type="checkbox"/> Unknown <input type="checkbox"/> Radiological</p> <p>Deliverable Requested: I, II, III, IV, Other (specify)</p> <p>Empty Kit Relinquished by: _____ Date: _____ Time: _____</p> <p>Relinquished by: <i>Ben Hodges</i> Date: 6/28/17 0800 Company: <i>Southern</i></p> <p>Relinquished by: <i>T Elrod</i> Date: 6/28/17 0950 Company: _____</p> <p>Relinquished by: <i>[Signature]</i> Date: 6/28/17 1600 Company: _____</p> <p>Custody Seal No.: _____ Custody Seal Intact: <input type="checkbox"/> Yes <input type="checkbox"/> No</p>								
<p>Special Instructions/QC Requirements: <input type="checkbox"/> Return To Client <input type="checkbox"/> Disposal By Lab <input type="checkbox"/> Archive For _____ Months</p> <p>Method of Shipment: _____</p> <p>Received by: <i>T Elrod</i> Date/Time: 6-28-17 0800 Company: <i>Southern</i></p> <p>Received by: <i>[Signature]</i> Date/Time: 6/28/17 950 Company: _____</p> <p>Received by: <i>[Signature]</i> Date/Time: 6/28/17 0800 Company: _____</p> <p>Cooler Temperature(s) °C and Other Remarks: _____</p>								



Login Sample Receipt Checklist

Client: Southern Company

Job Number: 400-139893-2

SDG Number: Ash Pond

Login Number: 139893

List Number: 1

Creator: Siddoway, Benjamin

List Source: TestAmerica Pensacola

Question	Answer	Comment
Radioactivity wasn't checked or is \leq background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	N/A	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	0.0°C, 4.5°C IR-2
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.	False	Sample dates corrected from 6/24 to 6/26 per client. FD-3(AP) labeled FB-3(AP).
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 <math><6\text{mm}</math> (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: Southern Company
Project/Site: CCR - Plant Scherer

TestAmerica Job ID: 400-139893-2
SDG: Ash Pond

Laboratory: TestAmerica Pensacola

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

Authority	Program	EPA Region	Identification Number	Expiration Date
Alabama	State Program	4	40150	06-30-18
Arizona	State Program	9	AZ0710	01-11-18
Arkansas DEQ	State Program	6	88-0689	09-01-17
California	ELAP	9	2510	03-31-18
Florida	NELAP	4	E81010	06-30-18
Georgia	State Program	4	N/A	06-30-18
Illinois	NELAP	5	200041	10-09-17
Iowa	State Program	7	367	08-01-18
Kansas	NELAP	7	E-10253	10-31-17
Kentucky (UST)	State Program	4	53	06-30-17 *
Kentucky (WW)	State Program	4	98030	12-31-17
L-A-B	ISO/IEC 17025		L2471	02-22-20
Louisiana	NELAP	6	30976	06-30-18
Louisiana (DW)	NELAP	6	LA170005	12-31-17
Maryland	State Program	3	233	09-30-18
Massachusetts	State Program	1	M-FL094	06-30-18
Michigan	State Program	5	9912	06-30-18
New Jersey	NELAP	2	FL006	06-30-18
North Carolina (WW/SW)	State Program	4	314	12-31-17
Oklahoma	State Program	6	9810	08-31-17
Pennsylvania	NELAP	3	68-00467	01-31-18
Rhode Island	State Program	1	LAO00307	12-30-17
South Carolina	State Program	4	96026	06-30-17 *
Tennessee	State Program	4	TN02907	06-30-18
Texas	NELAP	6	T104704286-16-10	09-30-17
USDA	Federal		P330-16-00172	05-24-19
Virginia	NELAP	3	460166	06-14-18
Washington	State Program	10	C915	05-15-18
West Virginia DEP	State Program	3	136	06-30-18

Laboratory: TestAmerica St. Louis

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

Authority	Program	EPA Region	Identification Number	Expiration Date
Alaska	State Program	10	MO00054	06-30-18
California	State Program	9	2886	03-31-18 *
Connecticut	State Program	1	PH-0241	03-31-19
Florida	NELAP	4	E87689	06-30-18
Illinois	NELAP	5	200023	11-30-17
Iowa	State Program	7	373	02-01-18
Kansas	NELAP	7	E-10236	10-31-17
Kentucky (DW)	State Program	4	90125	12-31-17
L-A-B	DoD ELAP		L2305	04-06-19
Louisiana	NELAP	6	04080	06-30-18
Louisiana (DW)	NELAP	6	LA170011	12-31-17
Maryland	State Program	3	310	09-30-18
Missouri	State Program	7	780	06-30-17 *
Nevada	State Program	9	MO000542017-1	07-31-17 *
New Jersey	NELAP	2	MO002	06-30-18
New York	NELAP	2	11616	03-31-18

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

TestAmerica Pensacola

Accreditation/Certification Summary

Client: Southern Company
Project/Site: CCR - Plant Scherer

TestAmerica Job ID: 400-139893-2
SDG: Ash Pond

Laboratory: TestAmerica St. Louis (Continued)

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

Authority	Program	EPA Region	Identification Number	Expiration Date
North Dakota	State Program	8	R207	06-30-17 *
NRC	NRC		24-24817-01	12-31-22
Oklahoma	State Program	6	9997	08-31-17 *
Pennsylvania	NELAP	3	68-00540	02-21-18
South Carolina	State Program	4	85002001	06-30-17 *
Texas	NELAP	6	T104704193-16-10	07-31-17 *
US Fish & Wildlife	Federal		LE058448-0	10-31-17
USDA	Federal		P330-17-0028	02-02-20
Utah	NELAP	8	MO000542016-8	07-31-17 *
Virginia	NELAP	3	460230	06-14-18
Washington	State Program	10	C592	08-30-17 *
West Virginia DEP	State Program	3	381	08-31-17 *

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

TestAmerica Pensacola

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

TestAmerica Laboratories, Inc.

TestAmerica Pensacola

3355 McLemore Drive

Pensacola, FL 32514

Tel: (850)474-1001

TestAmerica Job ID: 400-139893-3

TestAmerica Sample Delivery Group: Ash Pond

Client Project/Site: CCR - Plant Scherer

For:

Southern Company

241 Ralph McGill Blvd SE

B10185

Atlanta, Georgia 30308

Attn: Joju Abraham



Authorized for release by:

7/21/2017 4:35:39 PM

Cheyenne Whitmire, Project Manager II

(850)471-6222

cheyenne.whitmire@testamericainc.com

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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.

1

2

3

4

5

6

7

8

9

10

11

12

13



Table of Contents

Cover Page	1
Table of Contents	2
Detection Summary	3
Method Summary	10
Sample Summary	11
Client Sample Results	12
Definitions	37
Chronicle	38
QC Association	44
QC Sample Results	47
Chain of Custody	50
Receipt Checklists	53
Certification Summary	54

Detection Summary

Client: Southern Company
Project/Site: CCR - Plant Scherer

TestAmerica Job ID: 400-139893-3
SDG: Ash Pond

Client Sample ID: SGWA-4

Lab Sample ID: 400-139893-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Sodium	9600		250	170	ug/L	5		6020	Total Recoverable
Potassium	1800		250	110	ug/L	5		6020	Total Recoverable
Calcium	18000		250	130	ug/L	5		6020	Total Recoverable
Magnesium	6600		130	32	ug/L	5		6020	Total Recoverable
Alkalinity, Total	97		1.0	0.98	mg/L	1		SM 2320B	Total/NA
Bicarbonate Alkalinity as CaCO3	97		1.0	0.98	mg/L	1		SM 2320B	Total/NA

Client Sample ID: SGWA-3

Lab Sample ID: 400-139893-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Sodium	3400		250	170	ug/L	5		6020	Total Recoverable
Potassium	1100		250	110	ug/L	5		6020	Total Recoverable
Calcium	4900		250	130	ug/L	5		6020	Total Recoverable
Magnesium	4400		130	32	ug/L	5		6020	Total Recoverable
Alkalinity, Total	36		1.0	0.98	mg/L	1		SM 2320B	Total/NA
Bicarbonate Alkalinity as CaCO3	36		1.0	0.98	mg/L	1		SM 2320B	Total/NA

Client Sample ID: SGWA-5

Lab Sample ID: 400-139893-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Sodium	10000		250	170	ug/L	5		6020	Total Recoverable
Potassium	550		250	110	ug/L	5		6020	Total Recoverable
Calcium	1500		250	130	ug/L	5		6020	Total Recoverable
Magnesium	500		130	32	ug/L	5		6020	Total Recoverable
Alkalinity, Total	28		1.0	0.98	mg/L	1		SM 2320B	Total/NA
Bicarbonate Alkalinity as CaCO3	28		1.0	0.98	mg/L	1		SM 2320B	Total/NA

Client Sample ID: SGWA-1

Lab Sample ID: 400-139893-6

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Sodium	3100		250	170	ug/L	5		6020	Total Recoverable
Potassium	640		250	110	ug/L	5		6020	Total Recoverable
Calcium	1700		250	130	ug/L	5		6020	Total Recoverable
Magnesium	930		130	32	ug/L	5		6020	Total Recoverable
Alkalinity, Total	14		1.0	0.98	mg/L	1		SM 2320B	Total/NA
Bicarbonate Alkalinity as CaCO3	14		1.0	0.98	mg/L	1		SM 2320B	Total/NA

Client Sample ID: SGWA-2

Lab Sample ID: 400-139893-8

This Detection Summary does not include radiochemical test results.

TestAmerica Pensacola

Detection Summary

Client: Southern Company
Project/Site: CCR - Plant Scherer

TestAmerica Job ID: 400-139893-3
SDG: Ash Pond

Client Sample ID: SGWA-2 (Continued)

Lab Sample ID: 400-139893-8

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Sodium	4900		250	170	ug/L	5		6020	Total Recoverable
Potassium	920		250	110	ug/L	5		6020	Total Recoverable
Calcium	10000		250	130	ug/L	5		6020	Total Recoverable
Magnesium	6500		130	32	ug/L	5		6020	Total Recoverable
Alkalinity, Total	63		1.0	0.98	mg/L	1		SM 2320B	Total/NA
Bicarbonate Alkalinity as CaCO3	63		1.0	0.98	mg/L	1		SM 2320B	Total/NA

Client Sample ID: SGWA-24

Lab Sample ID: 400-139893-9

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Sodium	6500		250	170	ug/L	5		6020	Total Recoverable
Potassium	850		250	110	ug/L	5		6020	Total Recoverable
Calcium	13000		250	130	ug/L	5		6020	Total Recoverable
Magnesium	6800		130	32	ug/L	5		6020	Total Recoverable
Alkalinity, Total	74		1.0	0.98	mg/L	1		SM 2320B	Total/NA
Bicarbonate Alkalinity as CaCO3	74		1.0	0.98	mg/L	1		SM 2320B	Total/NA

Client Sample ID: SGWC-22

Lab Sample ID: 400-139893-10

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Sodium	16000		250	170	ug/L	5		6020	Total Recoverable
Potassium	2800		250	110	ug/L	5		6020	Total Recoverable
Calcium	25000		250	130	ug/L	5		6020	Total Recoverable
Magnesium	14000		130	32	ug/L	5		6020	Total Recoverable
Alkalinity, Total	55		1.0	0.98	mg/L	1		SM 2320B	Total/NA
Bicarbonate Alkalinity as CaCO3	55		1.0	0.98	mg/L	1		SM 2320B	Total/NA

Client Sample ID: SGWC-19

Lab Sample ID: 400-139893-11

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Sodium	35000		250	170	ug/L	5		6020	Total Recoverable
Potassium	2000		250	110	ug/L	5		6020	Total Recoverable
Calcium	36000		250	130	ug/L	5		6020	Total Recoverable
Magnesium	20000		130	32	ug/L	5		6020	Total Recoverable
Alkalinity, Total	15		1.0	0.98	mg/L	1		SM 2320B	Total/NA
Bicarbonate Alkalinity as CaCO3	15		1.0	0.98	mg/L	1		SM 2320B	Total/NA

Client Sample ID: SGWC-21

Lab Sample ID: 400-139893-12

This Detection Summary does not include radiochemical test results.

TestAmerica Pensacola

Detection Summary

Client: Southern Company
Project/Site: CCR - Plant Scherer

TestAmerica Job ID: 400-139893-3
SDG: Ash Pond

Client Sample ID: SGWC-21 (Continued)

Lab Sample ID: 400-139893-12

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Sodium	47000		250	170	ug/L	5		6020	Total Recoverable
Potassium	1600		250	110	ug/L	5		6020	Total Recoverable
Calcium	29000		250	130	ug/L	5		6020	Total Recoverable
Magnesium	12000		130	32	ug/L	5		6020	Total Recoverable
Alkalinity, Total	140		1.0	0.98	mg/L	1		SM 2320B	Total/NA
Bicarbonate Alkalinity as CaCO3	140		1.0	0.98	mg/L	1		SM 2320B	Total/NA

Client Sample ID: SGWC-23

Lab Sample ID: 400-139893-13

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Sodium	27000		250	170	ug/L	5		6020	Total Recoverable
Potassium	2000		250	110	ug/L	5		6020	Total Recoverable
Calcium	27000		250	130	ug/L	5		6020	Total Recoverable
Magnesium	14000		130	32	ug/L	5		6020	Total Recoverable
Alkalinity, Total	54		1.0	0.98	mg/L	1		SM 2320B	Total/NA
Bicarbonate Alkalinity as CaCO3	54		1.0	0.98	mg/L	1		SM 2320B	Total/NA

Client Sample ID: SGWC-18

Lab Sample ID: 400-139893-14

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Sodium	110000		250	170	ug/L	5		6020	Total Recoverable
Potassium	2600		250	110	ug/L	5		6020	Total Recoverable
Calcium	36000		250	130	ug/L	5		6020	Total Recoverable
Magnesium	25000		130	32	ug/L	5		6020	Total Recoverable

Client Sample ID: SGWC-20

Lab Sample ID: 400-139893-15

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Sodium	59000		250	170	ug/L	5		6020	Total Recoverable
Potassium	3400		250	110	ug/L	5		6020	Total Recoverable
Calcium	15000		250	130	ug/L	5		6020	Total Recoverable
Magnesium	21000		130	32	ug/L	5		6020	Total Recoverable

Client Sample ID: SGWC-7

Lab Sample ID: 400-139893-19

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Sodium	26000	F1 F2	250	170	ug/L	5		6020	Total Recoverable

This Detection Summary does not include radiochemical test results.

TestAmerica Pensacola

Detection Summary

Client: Southern Company
Project/Site: CCR - Plant Scherer

TestAmerica Job ID: 400-139893-3
SDG: Ash Pond

Client Sample ID: SGWC-7 (Continued)

Lab Sample ID: 400-139893-19

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Potassium	5000	F1 F2	250	110	ug/L	5		6020	Total Recoverable
Calcium	23000	F1 F2	250	130	ug/L	5		6020	Total Recoverable
Magnesium	17000	F1 F2	130	32	ug/L	5		6020	Total Recoverable
Alkalinity, Total	170		1.0	0.98	mg/L	1		SM 2320B	Total/NA
Bicarbonate Alkalinity as CaCO3	170		1.0	0.98	mg/L	1		SM 2320B	Total/NA

Client Sample ID: SGWC-6

Lab Sample ID: 400-139893-20

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Sodium	8700		250	170	ug/L	5		6020	Total Recoverable
Potassium	980		250	110	ug/L	5		6020	Total Recoverable
Calcium	6200		250	130	ug/L	5		6020	Total Recoverable
Magnesium	3400		130	32	ug/L	5		6020	Total Recoverable
Alkalinity, Total	50		1.0	0.98	mg/L	1		SM 2320B	Total/NA
Bicarbonate Alkalinity as CaCO3	50		1.0	0.98	mg/L	1		SM 2320B	Total/NA

Client Sample ID: SGWA-25

Lab Sample ID: 400-139893-21

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Potassium	610		250	110	ug/L	5		6020	Total Recoverable
Calcium	9500		250	130	ug/L	5		6020	Total Recoverable
Sodium - RA	4800		250	170	ug/L	5		6020	Total Recoverable
Magnesium - RA	7100		130	32	ug/L	5		6020	Total Recoverable
Alkalinity, Total	67		1.0	0.98	mg/L	1		SM 2320B	Total/NA
Bicarbonate Alkalinity as CaCO3	67		1.0	0.98	mg/L	1		SM 2320B	Total/NA

Client Sample ID: SGWC-17

Lab Sample ID: 400-139893-22

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Potassium	330		250	110	ug/L	5		6020	Total Recoverable
Calcium	42000		250	130	ug/L	5		6020	Total Recoverable
Sodium - RA	24000		250	170	ug/L	5		6020	Total Recoverable
Magnesium - RA	26000		130	32	ug/L	5		6020	Total Recoverable
Alkalinity, Total	83		1.0	0.98	mg/L	1		SM 2320B	Total/NA
Bicarbonate Alkalinity as CaCO3	83		1.0	0.98	mg/L	1		SM 2320B	Total/NA

Client Sample ID: SGWC-11

Lab Sample ID: 400-139893-23

This Detection Summary does not include radiochemical test results.

TestAmerica Pensacola

Detection Summary

Client: Southern Company
Project/Site: CCR - Plant Scherer

TestAmerica Job ID: 400-139893-3
SDG: Ash Pond

Client Sample ID: SGWC-11 (Continued)

Lab Sample ID: 400-139893-23

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Potassium	320		250	110	ug/L	5		6020	Total Recoverable
Calcium	1900		250	130	ug/L	5		6020	Total Recoverable
Sodium - RA	11000		250	170	ug/L	5		6020	Total Recoverable
Magnesium - RA	1500		130	32	ug/L	5		6020	Total Recoverable
Alkalinity, Total	30		1.0	0.98	mg/L	1		SM 2320B	Total/NA
Bicarbonate Alkalinity as CaCO3	30		1.0	0.98	mg/L	1		SM 2320B	Total/NA

Client Sample ID: SGWC-8

Lab Sample ID: 400-139893-24

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Potassium	1400		250	110	ug/L	5		6020	Total Recoverable
Calcium	50000		250	130	ug/L	5		6020	Total Recoverable
Sodium - RA	43000		250	170	ug/L	5		6020	Total Recoverable
Magnesium - RA	32000		130	32	ug/L	5		6020	Total Recoverable
Alkalinity, Total	250		1.0	0.98	mg/L	1		SM 2320B	Total/NA
Bicarbonate Alkalinity as CaCO3	250		1.0	0.98	mg/L	1		SM 2320B	Total/NA

Client Sample ID: SGWC-12

Lab Sample ID: 400-139893-25

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Potassium	560		250	110	ug/L	5		6020	Total Recoverable
Calcium	22000		250	130	ug/L	5		6020	Total Recoverable
Sodium - RA	16000		250	170	ug/L	5		6020	Total Recoverable
Magnesium - RA	15000		130	32	ug/L	5		6020	Total Recoverable
Alkalinity, Total	110		1.0	0.98	mg/L	1		SM 2320B	Total/NA
Bicarbonate Alkalinity as CaCO3	110		1.0	0.98	mg/L	1		SM 2320B	Total/NA

Client Sample ID: SGWC-9

Lab Sample ID: 400-139893-26

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Potassium	720		250	110	ug/L	5		6020	Total Recoverable
Calcium	53000		250	130	ug/L	5		6020	Total Recoverable
Sodium - RA	61000		250	170	ug/L	5		6020	Total Recoverable
Magnesium - RA	36000		130	32	ug/L	5		6020	Total Recoverable
Alkalinity, Total	49		1.0	0.98	mg/L	1		SM 2320B	Total/NA
Bicarbonate Alkalinity as CaCO3	49		1.0	0.98	mg/L	1		SM 2320B	Total/NA

Client Sample ID: SGWC-13

Lab Sample ID: 400-139893-27

This Detection Summary does not include radiochemical test results.

TestAmerica Pensacola

Detection Summary

Client: Southern Company
Project/Site: CCR - Plant Scherer

TestAmerica Job ID: 400-139893-3
SDG: Ash Pond

Client Sample ID: SGWC-13 (Continued)

Lab Sample ID: 400-139893-27

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Potassium	1100		250	110	ug/L	5		6020	Total Recoverable
Calcium	15000		250	130	ug/L	5		6020	Total Recoverable
Sodium - RA	25000		250	170	ug/L	5		6020	Total Recoverable
Magnesium - RA	6900		130	32	ug/L	5		6020	Total Recoverable
Alkalinity, Total	42		1.0	0.98	mg/L	1		SM 2320B	Total/NA
Bicarbonate Alkalinity as CaCO3	42		1.0	0.98	mg/L	1		SM 2320B	Total/NA

Client Sample ID: SGWC-10

Lab Sample ID: 400-139893-31

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Potassium	310		250	110	ug/L	5		6020	Total Recoverable
Calcium	3100		250	130	ug/L	5		6020	Total Recoverable
Sodium - RA	4700		250	170	ug/L	5		6020	Total Recoverable
Magnesium - RA	6900		130	32	ug/L	5		6020	Total Recoverable
Alkalinity, Total	29		1.0	0.98	mg/L	1		SM 2320B	Total/NA
Bicarbonate Alkalinity as CaCO3	29		1.0	0.98	mg/L	1		SM 2320B	Total/NA

Client Sample ID: SGWC-14

Lab Sample ID: 400-139893-32

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Potassium	1800		250	110	ug/L	5		6020	Total Recoverable
Calcium	38000		250	130	ug/L	5		6020	Total Recoverable
Sodium - RA	23000		250	170	ug/L	5		6020	Total Recoverable
Magnesium - RA	22000		130	32	ug/L	5		6020	Total Recoverable
Alkalinity, Total	22		1.0	0.98	mg/L	1		SM 2320B	Total/NA
Bicarbonate Alkalinity as CaCO3	22		1.0	0.98	mg/L	1		SM 2320B	Total/NA

Client Sample ID: SGWC-15

Lab Sample ID: 400-139893-33

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Potassium	4600		250	110	ug/L	5		6020	Total Recoverable
Calcium	16000		250	130	ug/L	5		6020	Total Recoverable
Sodium - RA	46000		250	170	ug/L	5		6020	Total Recoverable
Magnesium - RA	19000		130	32	ug/L	5		6020	Total Recoverable
Alkalinity, Total	1.0		1.0	0.98	mg/L	1		SM 2320B	Total/NA
Bicarbonate Alkalinity as CaCO3	1.0		1.0	0.98	mg/L	1		SM 2320B	Total/NA

Client Sample ID: SGWC-16

Lab Sample ID: 400-139893-34

This Detection Summary does not include radiochemical test results.

TestAmerica Pensacola

Detection Summary

Client: Southern Company
 Project/Site: CCR - Plant Scherer

TestAmerica Job ID: 400-139893-3
 SDG: Ash Pond

Client Sample ID: SGWC-16 (Continued)

Lab Sample ID: 400-139893-34

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Potassium	370		250	110	ug/L	5		6020	Total Recoverable
Calcium	760		250	130	ug/L	5		6020	Total Recoverable
Sodium - RA	18000		250	170	ug/L	5		6020	Total Recoverable
Magnesium - RA	500		130	32	ug/L	5		6020	Total Recoverable
Alkalinity, Total	8.2		1.0	0.98	mg/L	1		SM 2320B	Total/NA
Bicarbonate Alkalinity as CaCO3	8.2		1.0	0.98	mg/L	1		SM 2320B	Total/NA

This Detection Summary does not include radiochemical test results.

TestAmerica Pensacola



Method Summary

Client: Southern Company
Project/Site: CCR - Plant Scherer

TestAmerica Job ID: 400-139893-3
SDG: Ash Pond

Method	Method Description	Protocol	Laboratory
6020	Metals (ICP/MS)	SW846	TAL PEN
SM 2320B	Alkalinity	SM	TAL PEN

Protocol References:

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:

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



Sample Summary

Client: Southern Company
Project/Site: CCR - Plant Scherer

TestAmerica Job ID: 400-139893-3
SDG: Ash Pond

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
400-139893-1	SGWA-4	Water	06/26/17 14:30	06/28/17 08:33
400-139893-3	SGWA-3	Water	06/26/17 12:55	06/28/17 08:33
400-139893-4	SGWA-5	Water	06/26/17 10:25	06/28/17 08:33
400-139893-6	SGWA-1	Water	06/26/17 13:50	06/28/17 08:33
400-139893-8	SGWA-2	Water	06/26/17 15:30	06/28/17 08:33
400-139893-9	SGWA-24	Water	06/26/17 14:55	06/28/17 08:33
400-139893-10	SGWC-22	Water	06/28/17 09:15	06/29/17 08:50
400-139893-11	SGWC-19	Water	06/28/17 09:10	06/29/17 08:50
400-139893-12	SGWC-21	Water	06/28/17 09:35	06/29/17 08:50
400-139893-13	SGWC-23	Water	06/28/17 10:35	06/29/17 08:50
400-139893-14	SGWC-18	Water	06/28/17 10:15	06/29/17 08:50
400-139893-15	SGWC-20	Water	06/28/17 11:05	06/29/17 08:50
400-139893-19	SGWC-7	Water	06/27/17 12:45	06/29/17 08:50
400-139893-20	SGWC-6	Water	06/27/17 10:25	06/29/17 08:50
400-139893-21	SGWA-25	Water	06/27/17 09:20	06/29/17 08:50
400-139893-22	SGWC-17	Water	06/27/17 14:40	06/29/17 08:50
400-139893-23	SGWC-11	Water	06/27/17 09:20	06/29/17 08:50
400-139893-24	SGWC-8	Water	06/27/17 09:30	06/29/17 08:50
400-139893-25	SGWC-12	Water	06/27/17 10:50	06/29/17 08:50
400-139893-26	SGWC-9	Water	06/27/17 10:50	06/29/17 08:50
400-139893-27	SGWC-13	Water	06/27/17 11:55	06/29/17 08:50
400-139893-31	SGWC-10	Water	06/27/17 13:45	06/29/17 08:50
400-139893-32	SGWC-14	Water	06/27/17 13:55	06/29/17 08:50
400-139893-33	SGWC-15	Water	06/27/17 14:55	06/29/17 08:50
400-139893-34	SGWC-16	Water	06/27/17 15:20	06/29/17 08:50

Client Sample Results

Client: Southern Company
 Project/Site: CCR - Plant Scherer

TestAmerica Job ID: 400-139893-3
 SDG: Ash Pond

Client Sample ID: SGWA-4
Date Collected: 06/26/17 14:30
Date Received: 06/28/17 08:33

Lab Sample ID: 400-139893-1
Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sodium	9600		250	170	ug/L		07/05/17 16:06	07/06/17 13:28	5
Potassium	1800		250	110	ug/L		07/05/17 16:06	07/06/17 13:28	5
Calcium	18000		250	130	ug/L		07/05/17 16:06	07/06/17 13:28	5
Magnesium	6600		130	32	ug/L		07/05/17 16:06	07/06/17 13:28	5

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Alkalinity, Total	97		1.0	0.98	mg/L			07/06/17 07:55	1
Bicarbonate Alkalinity as CaCO3	97		1.0	0.98	mg/L			07/06/17 07:55	1
Carbonate Alkalinity as CaCO3	<0.98		1.0	0.98	mg/L			07/06/17 07:55	1

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Client Sample Results

Client: Southern Company
 Project/Site: CCR - Plant Scherer

TestAmerica Job ID: 400-139893-3
 SDG: Ash Pond

Client Sample ID: SGWA-3
Date Collected: 06/26/17 12:55
Date Received: 06/28/17 08:33

Lab Sample ID: 400-139893-3
Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sodium	3400		250	170	ug/L		07/05/17 16:06	07/06/17 13:37	5
Potassium	1100		250	110	ug/L		07/05/17 16:06	07/06/17 13:37	5
Calcium	4900		250	130	ug/L		07/05/17 16:06	07/06/17 13:37	5
Magnesium	4400		130	32	ug/L		07/05/17 16:06	07/06/17 13:37	5

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Alkalinity, Total	36		1.0	0.98	mg/L			07/06/17 08:09	1
Bicarbonate Alkalinity as CaCO3	36		1.0	0.98	mg/L			07/06/17 08:09	1
Carbonate Alkalinity as CaCO3	<0.98		1.0	0.98	mg/L			07/06/17 08:09	1

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Client Sample Results

Client: Southern Company
 Project/Site: CCR - Plant Scherer

TestAmerica Job ID: 400-139893-3
 SDG: Ash Pond

Client Sample ID: SGWA-5
Date Collected: 06/26/17 10:25
Date Received: 06/28/17 08:33

Lab Sample ID: 400-139893-4
Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sodium	10000		250	170	ug/L		07/05/17 16:06	07/06/17 13:42	5
Potassium	550		250	110	ug/L		07/05/17 16:06	07/06/17 13:42	5
Calcium	1500		250	130	ug/L		07/05/17 16:06	07/06/17 13:42	5
Magnesium	500		130	32	ug/L		07/05/17 16:06	07/06/17 13:42	5

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Alkalinity, Total	28		1.0	0.98	mg/L			07/06/17 08:13	1
Bicarbonate Alkalinity as CaCO3	28		1.0	0.98	mg/L			07/06/17 08:13	1
Carbonate Alkalinity as CaCO3	<0.98		1.0	0.98	mg/L			07/06/17 08:13	1

Client Sample Results

Client: Southern Company
 Project/Site: CCR - Plant Scherer

TestAmerica Job ID: 400-139893-3
 SDG: Ash Pond

Client Sample ID: SGWA-1
Date Collected: 06/26/17 13:50
Date Received: 06/28/17 08:33

Lab Sample ID: 400-139893-6
Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sodium	3100		250	170	ug/L		07/05/17 16:06	07/06/17 13:51	5
Potassium	640		250	110	ug/L		07/05/17 16:06	07/06/17 13:51	5
Calcium	1700		250	130	ug/L		07/05/17 16:06	07/06/17 13:51	5
Magnesium	930		130	32	ug/L		07/05/17 16:06	07/06/17 13:51	5

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Alkalinity, Total	14		1.0	0.98	mg/L			07/06/17 08:20	1
Bicarbonate Alkalinity as CaCO3	14		1.0	0.98	mg/L			07/06/17 08:20	1
Carbonate Alkalinity as CaCO3	<0.98		1.0	0.98	mg/L			07/06/17 08:20	1

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Client Sample Results

Client: Southern Company
 Project/Site: CCR - Plant Scherer

TestAmerica Job ID: 400-139893-3
 SDG: Ash Pond

Client Sample ID: SGWA-2
Date Collected: 06/26/17 15:30
Date Received: 06/28/17 08:33

Lab Sample ID: 400-139893-8
Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sodium	4900		250	170	ug/L		07/05/17 16:06	07/06/17 14:00	5
Potassium	920		250	110	ug/L		07/05/17 16:06	07/06/17 14:00	5
Calcium	10000		250	130	ug/L		07/05/17 16:06	07/06/17 14:00	5
Magnesium	6500		130	32	ug/L		07/05/17 16:06	07/06/17 14:00	5

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Alkalinity, Total	63		1.0	0.98	mg/L			07/06/17 08:29	1
Bicarbonate Alkalinity as CaCO3	63		1.0	0.98	mg/L			07/06/17 08:29	1
Carbonate Alkalinity as CaCO3	<0.98		1.0	0.98	mg/L			07/06/17 08:29	1

Client Sample Results

Client: Southern Company
 Project/Site: CCR - Plant Scherer

TestAmerica Job ID: 400-139893-3
 SDG: Ash Pond

Client Sample ID: SGWA-24

Lab Sample ID: 400-139893-9

Date Collected: 06/26/17 14:55

Matrix: Water

Date Received: 06/28/17 08:33

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sodium	6500		250	170	ug/L		07/05/17 16:06	07/06/17 14:05	5
Potassium	850		250	110	ug/L		07/05/17 16:06	07/06/17 14:05	5
Calcium	13000		250	130	ug/L		07/05/17 16:06	07/06/17 14:05	5
Magnesium	6800		130	32	ug/L		07/05/17 16:06	07/06/17 14:05	5

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Alkalinity, Total	74		1.0	0.98	mg/L			07/06/17 08:35	1
Bicarbonate Alkalinity as CaCO3	74		1.0	0.98	mg/L			07/06/17 08:35	1
Carbonate Alkalinity as CaCO3	<0.98		1.0	0.98	mg/L			07/06/17 08:35	1



Client Sample Results

Client: Southern Company
 Project/Site: CCR - Plant Scherer

TestAmerica Job ID: 400-139893-3
 SDG: Ash Pond

Client Sample ID: SGWC-22

Lab Sample ID: 400-139893-10

Date Collected: 06/28/17 09:15

Matrix: Water

Date Received: 06/29/17 08:50

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sodium	16000		250	170	ug/L		07/05/17 16:06	07/06/17 14:10	5
Potassium	2800		250	110	ug/L		07/05/17 16:06	07/06/17 14:10	5
Calcium	25000		250	130	ug/L		07/05/17 16:06	07/06/17 14:10	5
Magnesium	14000		130	32	ug/L		07/05/17 16:06	07/06/17 14:10	5

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Alkalinity, Total	55		1.0	0.98	mg/L			07/07/17 09:23	1
Bicarbonate Alkalinity as CaCO3	55		1.0	0.98	mg/L			07/07/17 09:23	1
Carbonate Alkalinity as CaCO3	<0.98		1.0	0.98	mg/L			07/07/17 09:23	1

Client Sample Results

Client: Southern Company
 Project/Site: CCR - Plant Scherer

TestAmerica Job ID: 400-139893-3
 SDG: Ash Pond

Client Sample ID: SGWC-19

Lab Sample ID: 400-139893-11

Date Collected: 06/28/17 09:10

Matrix: Water

Date Received: 06/29/17 08:50

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sodium	35000		250	170	ug/L		07/05/17 16:06	07/06/17 14:32	5
Potassium	2000		250	110	ug/L		07/05/17 16:06	07/06/17 14:32	5
Calcium	36000		250	130	ug/L		07/05/17 16:06	07/06/17 14:32	5
Magnesium	20000		130	32	ug/L		07/05/17 16:06	07/06/17 14:32	5

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Alkalinity, Total	15		1.0	0.98	mg/L			07/07/17 09:28	1
Bicarbonate Alkalinity as CaCO3	15		1.0	0.98	mg/L			07/07/17 09:28	1
Carbonate Alkalinity as CaCO3	<0.98		1.0	0.98	mg/L			07/07/17 09:28	1

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Client Sample Results

Client: Southern Company
 Project/Site: CCR - Plant Scherer

TestAmerica Job ID: 400-139893-3
 SDG: Ash Pond

Client Sample ID: SGWC-21
Date Collected: 06/28/17 09:35
Date Received: 06/29/17 08:50

Lab Sample ID: 400-139893-12
Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sodium	47000		250	170	ug/L		07/05/17 16:06	07/06/17 14:37	5
Potassium	1600		250	110	ug/L		07/05/17 16:06	07/06/17 14:37	5
Calcium	29000		250	130	ug/L		07/05/17 16:06	07/06/17 14:37	5
Magnesium	12000		130	32	ug/L		07/05/17 16:06	07/06/17 14:37	5

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Alkalinity, Total	140		1.0	0.98	mg/L			07/07/17 09:33	1
Bicarbonate Alkalinity as CaCO3	140		1.0	0.98	mg/L			07/07/17 09:33	1
Carbonate Alkalinity as CaCO3	<0.98		1.0	0.98	mg/L			07/07/17 09:33	1

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Client Sample Results

Client: Southern Company
 Project/Site: CCR - Plant Scherer

TestAmerica Job ID: 400-139893-3
 SDG: Ash Pond

Client Sample ID: SGWC-23

Lab Sample ID: 400-139893-13

Date Collected: 06/28/17 10:35

Matrix: Water

Date Received: 06/29/17 08:50

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sodium	27000		250	170	ug/L		07/05/17 16:06	07/06/17 14:41	5
Potassium	2000		250	110	ug/L		07/05/17 16:06	07/06/17 14:41	5
Calcium	27000		250	130	ug/L		07/05/17 16:06	07/06/17 14:41	5
Magnesium	14000		130	32	ug/L		07/05/17 16:06	07/06/17 14:41	5

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Alkalinity, Total	54		1.0	0.98	mg/L			07/07/17 09:38	1
Bicarbonate Alkalinity as CaCO3	54		1.0	0.98	mg/L			07/07/17 09:38	1
Carbonate Alkalinity as CaCO3	<0.98		1.0	0.98	mg/L			07/07/17 09:38	1

Client Sample Results

Client: Southern Company
 Project/Site: CCR - Plant Scherer

TestAmerica Job ID: 400-139893-3
 SDG: Ash Pond

Client Sample ID: SGWC-18

Lab Sample ID: 400-139893-14

Date Collected: 06/28/17 10:15

Matrix: Water

Date Received: 06/29/17 08:50

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sodium	110000		250	170	ug/L		07/05/17 16:06	07/06/17 14:46	5
Potassium	2600		250	110	ug/L		07/05/17 16:06	07/06/17 14:46	5
Calcium	36000		250	130	ug/L		07/05/17 16:06	07/06/17 14:46	5
Magnesium	25000		130	32	ug/L		07/05/17 16:06	07/06/17 14:46	5

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Alkalinity, Total	<0.98		1.0	0.98	mg/L			07/07/17 10:37	1
Bicarbonate Alkalinity as CaCO3	<0.98		1.0	0.98	mg/L			07/07/17 10:37	1
Carbonate Alkalinity as CaCO3	<0.98		1.0	0.98	mg/L			07/07/17 10:37	1

Client Sample Results

Client: Southern Company
 Project/Site: CCR - Plant Scherer

TestAmerica Job ID: 400-139893-3
 SDG: Ash Pond

Client Sample ID: SGWC-20

Lab Sample ID: 400-139893-15

Date Collected: 06/28/17 11:05

Matrix: Water

Date Received: 06/29/17 08:50

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sodium	59000		250	170	ug/L		07/05/17 16:06	07/06/17 14:50	5
Potassium	3400		250	110	ug/L		07/05/17 16:06	07/06/17 14:50	5
Calcium	15000		250	130	ug/L		07/05/17 16:06	07/06/17 14:50	5
Magnesium	21000		130	32	ug/L		07/05/17 16:06	07/06/17 14:50	5

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Alkalinity, Total	<0.98		1.0	0.98	mg/L			07/07/17 10:43	1
Bicarbonate Alkalinity as CaCO3	<0.98		1.0	0.98	mg/L			07/07/17 10:43	1
Carbonate Alkalinity as CaCO3	<0.98		1.0	0.98	mg/L			07/07/17 10:43	1

Client Sample Results

Client: Southern Company
 Project/Site: CCR - Plant Scherer

TestAmerica Job ID: 400-139893-3
 SDG: Ash Pond

Client Sample ID: SGWC-7
Date Collected: 06/27/17 12:45
Date Received: 06/29/17 08:50

Lab Sample ID: 400-139893-19
Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sodium	26000	F1 F2	250	170	ug/L		07/05/17 16:10	07/06/17 18:23	5
Potassium	5000	F1 F2	250	110	ug/L		07/05/17 16:10	07/06/17 18:23	5
Calcium	23000	F1 F2	250	130	ug/L		07/05/17 16:10	07/06/17 18:23	5
Magnesium	17000	F1 F2	130	32	ug/L		07/05/17 16:10	07/06/17 18:23	5

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Alkalinity, Total	170		1.0	0.98	mg/L			07/06/17 08:49	1
Bicarbonate Alkalinity as CaCO3	170		1.0	0.98	mg/L			07/06/17 08:49	1
Carbonate Alkalinity as CaCO3	<0.98		1.0	0.98	mg/L			07/06/17 08:49	1

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Client Sample Results

Client: Southern Company
 Project/Site: CCR - Plant Scherer

TestAmerica Job ID: 400-139893-3
 SDG: Ash Pond

Client Sample ID: SGWC-6
Date Collected: 06/27/17 10:25
Date Received: 06/29/17 08:50

Lab Sample ID: 400-139893-20
Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sodium	8700		250	170	ug/L		07/05/17 16:10	07/06/17 18:45	5
Potassium	980		250	110	ug/L		07/05/17 16:10	07/06/17 18:45	5
Calcium	6200		250	130	ug/L		07/05/17 16:10	07/06/17 18:45	5
Magnesium	3400		130	32	ug/L		07/05/17 16:10	07/06/17 18:45	5

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Alkalinity, Total	50		1.0	0.98	mg/L			07/06/17 09:00	1
Bicarbonate Alkalinity as CaCO3	50		1.0	0.98	mg/L			07/06/17 09:00	1
Carbonate Alkalinity as CaCO3	<0.98		1.0	0.98	mg/L			07/06/17 09:00	1

Client Sample Results

Client: Southern Company
 Project/Site: CCR - Plant Scherer

TestAmerica Job ID: 400-139893-3
 SDG: Ash Pond

Client Sample ID: SGWA-25

Lab Sample ID: 400-139893-21

Date Collected: 06/27/17 09:20

Matrix: Water

Date Received: 06/29/17 08:50

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Potassium	610		250	110	ug/L		07/05/17 16:10	07/06/17 19:17	5
Calcium	9500		250	130	ug/L		07/05/17 16:10	07/06/17 19:17	5

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sodium	4800		250	170	ug/L		07/05/17 16:10	07/11/17 18:13	5
Magnesium	7100		130	32	ug/L		07/05/17 16:10	07/11/17 18:13	5

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Alkalinity, Total	67		1.0	0.98	mg/L			07/06/17 09:04	1
Bicarbonate Alkalinity as CaCO3	67		1.0	0.98	mg/L			07/06/17 09:04	1
Carbonate Alkalinity as CaCO3	<0.98		1.0	0.98	mg/L			07/06/17 09:04	1

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Client Sample Results

Client: Southern Company
 Project/Site: CCR - Plant Scherer

TestAmerica Job ID: 400-139893-3
 SDG: Ash Pond

Client Sample ID: SGWC-17

Lab Sample ID: 400-139893-22

Date Collected: 06/27/17 14:40

Matrix: Water

Date Received: 06/29/17 08:50

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Potassium	330		250	110	ug/L		07/05/17 16:10	07/06/17 19:21	5
Calcium	42000		250	130	ug/L		07/05/17 16:10	07/06/17 19:21	5

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sodium	24000		250	170	ug/L		07/05/17 16:10	07/11/17 18:17	5
Magnesium	26000		130	32	ug/L		07/05/17 16:10	07/11/17 18:17	5

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Alkalinity, Total	83		1.0	0.98	mg/L			07/06/17 09:10	1
Bicarbonate Alkalinity as CaCO3	83		1.0	0.98	mg/L			07/06/17 09:10	1
Carbonate Alkalinity as CaCO3	<0.98		1.0	0.98	mg/L			07/06/17 09:10	1

Client Sample Results

Client: Southern Company
 Project/Site: CCR - Plant Scherer

TestAmerica Job ID: 400-139893-3
 SDG: Ash Pond

Client Sample ID: SGWC-11
Date Collected: 06/27/17 09:20
Date Received: 06/29/17 08:50

Lab Sample ID: 400-139893-23
Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Potassium	320		250	110	ug/L		07/05/17 16:10	07/06/17 19:26	5
Calcium	1900		250	130	ug/L		07/05/17 16:10	07/06/17 19:26	5

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sodium	11000		250	170	ug/L		07/05/17 16:10	07/11/17 18:22	5
Magnesium	1500		130	32	ug/L		07/05/17 16:10	07/11/17 18:22	5

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Alkalinity, Total	30		1.0	0.98	mg/L			07/06/17 09:15	1
Bicarbonate Alkalinity as CaCO3	30		1.0	0.98	mg/L			07/06/17 09:15	1
Carbonate Alkalinity as CaCO3	<0.98		1.0	0.98	mg/L			07/06/17 09:15	1

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Client Sample Results

Client: Southern Company
 Project/Site: CCR - Plant Scherer

TestAmerica Job ID: 400-139893-3
 SDG: Ash Pond

Client Sample ID: SGWC-8

Lab Sample ID: 400-139893-24

Date Collected: 06/27/17 09:30

Matrix: Water

Date Received: 06/29/17 08:50

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Potassium	1400		250	110	ug/L		07/05/17 16:10	07/06/17 19:30	5
Calcium	50000		250	130	ug/L		07/05/17 16:10	07/06/17 19:30	5

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sodium	43000		250	170	ug/L		07/05/17 16:10	07/10/17 15:10	5
Magnesium	32000		130	32	ug/L		07/05/17 16:10	07/10/17 15:10	5

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Alkalinity, Total	250		1.0	0.98	mg/L			07/06/17 09:20	1
Bicarbonate Alkalinity as CaCO3	250		1.0	0.98	mg/L			07/06/17 09:20	1
Carbonate Alkalinity as CaCO3	<0.98		1.0	0.98	mg/L			07/06/17 09:20	1

Client Sample Results

Client: Southern Company
 Project/Site: CCR - Plant Scherer

TestAmerica Job ID: 400-139893-3
 SDG: Ash Pond

Client Sample ID: SGWC-12

Date Collected: 06/27/17 10:50

Date Received: 06/29/17 08:50

Lab Sample ID: 400-139893-25

Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Potassium	560		250	110	ug/L		07/05/17 16:10	07/06/17 19:35	5
Calcium	22000		250	130	ug/L		07/05/17 16:10	07/06/17 19:35	5

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sodium	16000		250	170	ug/L		07/05/17 16:10	07/10/17 15:14	5
Magnesium	15000		130	32	ug/L		07/05/17 16:10	07/10/17 15:14	5

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Alkalinity, Total	110		1.0	0.98	mg/L			07/06/17 09:25	1
Bicarbonate Alkalinity as CaCO3	110		1.0	0.98	mg/L			07/06/17 09:25	1
Carbonate Alkalinity as CaCO3	<0.98		1.0	0.98	mg/L			07/06/17 09:25	1

Client Sample Results

Client: Southern Company
Project/Site: CCR - Plant Scherer

TestAmerica Job ID: 400-139893-3
SDG: Ash Pond

Client Sample ID: SGWC-9

Date Collected: 06/27/17 10:50

Date Received: 06/29/17 08:50

Lab Sample ID: 400-139893-26

Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Potassium	720		250	110	ug/L		07/05/17 16:10	07/06/17 19:39	5
Calcium	53000		250	130	ug/L		07/05/17 16:10	07/06/17 19:39	5

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sodium	61000		250	170	ug/L		07/05/17 16:10	07/10/17 15:19	5
Magnesium	36000		130	32	ug/L		07/05/17 16:10	07/10/17 15:19	5

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Alkalinity, Total	49		1.0	0.98	mg/L			07/06/17 09:30	1
Bicarbonate Alkalinity as CaCO3	49		1.0	0.98	mg/L			07/06/17 09:30	1
Carbonate Alkalinity as CaCO3	<0.98		1.0	0.98	mg/L			07/06/17 09:30	1

Client Sample Results

Client: Southern Company
Project/Site: CCR - Plant Scherer

TestAmerica Job ID: 400-139893-3
SDG: Ash Pond

Client Sample ID: SGWC-13

Lab Sample ID: 400-139893-27

Date Collected: 06/27/17 11:55

Matrix: Water

Date Received: 06/29/17 08:50

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Potassium	1100		250	110	ug/L		07/05/17 16:10	07/06/17 19:44	5
Calcium	15000		250	130	ug/L		07/05/17 16:10	07/06/17 19:44	5

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sodium	25000		250	170	ug/L		07/05/17 16:10	07/10/17 15:24	5
Magnesium	6900		130	32	ug/L		07/05/17 16:10	07/10/17 15:24	5

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Alkalinity, Total	42		1.0	0.98	mg/L			07/06/17 09:34	1
Bicarbonate Alkalinity as CaCO3	42		1.0	0.98	mg/L			07/06/17 09:34	1
Carbonate Alkalinity as CaCO3	<0.98		1.0	0.98	mg/L			07/06/17 09:34	1

Client Sample Results

Client: Southern Company
 Project/Site: CCR - Plant Scherer

TestAmerica Job ID: 400-139893-3
 SDG: Ash Pond

Client Sample ID: SGWC-10

Lab Sample ID: 400-139893-31

Date Collected: 06/27/17 13:45

Matrix: Water

Date Received: 06/29/17 08:50

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Potassium	310		250	110	ug/L		07/05/17 16:10	07/06/17 20:11	5
Calcium	3100		250	130	ug/L		07/05/17 16:10	07/06/17 20:11	5

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sodium	4700		250	170	ug/L		07/05/17 16:10	07/10/17 15:28	5
Magnesium	6900		130	32	ug/L		07/05/17 16:10	07/10/17 15:28	5

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Alkalinity, Total	29		1.0	0.98	mg/L			07/07/17 09:05	1
Bicarbonate Alkalinity as CaCO3	29		1.0	0.98	mg/L			07/07/17 09:05	1
Carbonate Alkalinity as CaCO3	<0.98		1.0	0.98	mg/L			07/07/17 09:05	1

Client Sample Results

Client: Southern Company
 Project/Site: CCR - Plant Scherer

TestAmerica Job ID: 400-139893-3
 SDG: Ash Pond

Client Sample ID: SGWC-14

Lab Sample ID: 400-139893-32

Date Collected: 06/27/17 13:55

Matrix: Water

Date Received: 06/29/17 08:50

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Potassium	1800		250	110	ug/L		07/05/17 16:10	07/06/17 20:15	5
Calcium	38000		250	130	ug/L		07/05/17 16:10	07/06/17 20:15	5

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sodium	23000		250	170	ug/L		07/05/17 16:10	07/10/17 15:32	5
Magnesium	22000		130	32	ug/L		07/05/17 16:10	07/10/17 15:32	5

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Alkalinity, Total	22		1.0	0.98	mg/L			07/07/17 09:10	1
Bicarbonate Alkalinity as CaCO3	22		1.0	0.98	mg/L			07/07/17 09:10	1
Carbonate Alkalinity as CaCO3	<0.98		1.0	0.98	mg/L			07/07/17 09:10	1

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Client Sample Results

Client: Southern Company
 Project/Site: CCR - Plant Scherer

TestAmerica Job ID: 400-139893-3
 SDG: Ash Pond

Client Sample ID: SGWC-15

Lab Sample ID: 400-139893-33

Date Collected: 06/27/17 14:55

Matrix: Water

Date Received: 06/29/17 08:50

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Potassium	4600		250	110	ug/L		07/05/17 16:10	07/06/17 20:20	5
Calcium	16000		250	130	ug/L		07/05/17 16:10	07/06/17 20:20	5

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sodium	46000		250	170	ug/L		07/05/17 16:10	07/10/17 15:37	5
Magnesium	19000		130	32	ug/L		07/05/17 16:10	07/10/17 15:37	5

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Alkalinity, Total	1.0		1.0	0.98	mg/L			07/07/17 09:14	1
Bicarbonate Alkalinity as CaCO3	1.0		1.0	0.98	mg/L			07/07/17 09:14	1
Carbonate Alkalinity as CaCO3	<0.98		1.0	0.98	mg/L			07/07/17 09:14	1

Client Sample Results

Client: Southern Company
 Project/Site: CCR - Plant Scherer

TestAmerica Job ID: 400-139893-3
 SDG: Ash Pond

Client Sample ID: SGWC-16

Lab Sample ID: 400-139893-34

Date Collected: 06/27/17 15:20

Matrix: Water

Date Received: 06/29/17 08:50

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Potassium	370		250	110	ug/L		07/05/17 16:10	07/06/17 20:24	5
Calcium	760		250	130	ug/L		07/05/17 16:10	07/06/17 20:24	5

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sodium	18000		250	170	ug/L		07/05/17 16:10	07/10/17 15:41	5
Magnesium	500		130	32	ug/L		07/05/17 16:10	07/10/17 15:41	5

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Alkalinity, Total	8.2		1.0	0.98	mg/L			07/07/17 09:18	1
Bicarbonate Alkalinity as CaCO3	8.2		1.0	0.98	mg/L			07/07/17 09:18	1
Carbonate Alkalinity as CaCO3	<0.98		1.0	0.98	mg/L			07/07/17 09:18	1

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Definitions/Glossary

Client: Southern Company
Project/Site: CCR - Plant Scherer

TestAmerica Job ID: 400-139893-3
SDG: Ash Pond

Qualifiers

Metals

Qualifier	Qualifier Description
F1	MS and/or MSD Recovery is outside acceptance limits.
F2	MS/MSD RPD exceeds control limits

General Chemistry

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

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
α	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
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)
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
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)

Lab Chronicle

Client: Southern Company
Project/Site: CCR - Plant Scherer

TestAmerica Job ID: 400-139893-3
SDG: Ash Pond

Client Sample ID: SGWA-4

Date Collected: 06/26/17 14:30

Date Received: 06/28/17 08:33

Lab Sample ID: 400-139893-1

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total Recoverable	Prep	3005A			359450	07/05/17 16:06	DRE	TAL PEN
Total Recoverable	Analysis	6020		5	359826	07/06/17 13:28	DRE	TAL PEN
Total/NA	Analysis	SM 2320B		1	359498	07/06/17 07:55	BAB	TAL PEN

Client Sample ID: SGWA-3

Date Collected: 06/26/17 12:55

Date Received: 06/28/17 08:33

Lab Sample ID: 400-139893-3

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total Recoverable	Prep	3005A			359450	07/05/17 16:06	DRE	TAL PEN
Total Recoverable	Analysis	6020		5	359826	07/06/17 13:37	DRE	TAL PEN
Total/NA	Analysis	SM 2320B		1	359498	07/06/17 08:09	BAB	TAL PEN

Client Sample ID: SGWA-5

Date Collected: 06/26/17 10:25

Date Received: 06/28/17 08:33

Lab Sample ID: 400-139893-4

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total Recoverable	Prep	3005A			359450	07/05/17 16:06	DRE	TAL PEN
Total Recoverable	Analysis	6020		5	359826	07/06/17 13:42	DRE	TAL PEN
Total/NA	Analysis	SM 2320B		1	359498	07/06/17 08:13	BAB	TAL PEN

Client Sample ID: SGWA-1

Date Collected: 06/26/17 13:50

Date Received: 06/28/17 08:33

Lab Sample ID: 400-139893-6

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total Recoverable	Prep	3005A			359450	07/05/17 16:06	DRE	TAL PEN
Total Recoverable	Analysis	6020		5	359826	07/06/17 13:51	DRE	TAL PEN
Total/NA	Analysis	SM 2320B		1	359498	07/06/17 08:20	BAB	TAL PEN

Client Sample ID: SGWA-2

Date Collected: 06/26/17 15:30

Date Received: 06/28/17 08:33

Lab Sample ID: 400-139893-8

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total Recoverable	Prep	3005A			359450	07/05/17 16:06	DRE	TAL PEN
Total Recoverable	Analysis	6020		5	359826	07/06/17 14:00	DRE	TAL PEN
Total/NA	Analysis	SM 2320B		1	359498	07/06/17 08:29	BAB	TAL PEN

Lab Chronicle

Client: Southern Company
Project/Site: CCR - Plant Scherer

TestAmerica Job ID: 400-139893-3
SDG: Ash Pond

Client Sample ID: SGWA-24

Lab Sample ID: 400-139893-9

Date Collected: 06/26/17 14:55

Matrix: Water

Date Received: 06/28/17 08:33

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total Recoverable	Prep	3005A			359450	07/05/17 16:06	DRE	TAL PEN
Total Recoverable	Analysis	6020		5	359826	07/06/17 14:05	DRE	TAL PEN
Total/NA	Analysis	SM 2320B		1	359498	07/06/17 08:35	BAB	TAL PEN

Client Sample ID: SGWC-22

Lab Sample ID: 400-139893-10

Date Collected: 06/28/17 09:15

Matrix: Water

Date Received: 06/29/17 08:50

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total Recoverable	Prep	3005A			359450	07/05/17 16:06	DRE	TAL PEN
Total Recoverable	Analysis	6020		5	359826	07/06/17 14:10	DRE	TAL PEN
Total/NA	Analysis	SM 2320B		1	359638	07/07/17 09:23	BAB	TAL PEN

Client Sample ID: SGWC-19

Lab Sample ID: 400-139893-11

Date Collected: 06/28/17 09:10

Matrix: Water

Date Received: 06/29/17 08:50

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total Recoverable	Prep	3005A			359450	07/05/17 16:06	DRE	TAL PEN
Total Recoverable	Analysis	6020		5	359826	07/06/17 14:32	DRE	TAL PEN
Total/NA	Analysis	SM 2320B		1	359638	07/07/17 09:28	BAB	TAL PEN

Client Sample ID: SGWC-21

Lab Sample ID: 400-139893-12

Date Collected: 06/28/17 09:35

Matrix: Water

Date Received: 06/29/17 08:50

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total Recoverable	Prep	3005A			359450	07/05/17 16:06	DRE	TAL PEN
Total Recoverable	Analysis	6020		5	359826	07/06/17 14:37	DRE	TAL PEN
Total/NA	Analysis	SM 2320B		1	359638	07/07/17 09:33	BAB	TAL PEN

Client Sample ID: SGWC-23

Lab Sample ID: 400-139893-13

Date Collected: 06/28/17 10:35

Matrix: Water

Date Received: 06/29/17 08:50

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total Recoverable	Prep	3005A			359450	07/05/17 16:06	DRE	TAL PEN
Total Recoverable	Analysis	6020		5	359826	07/06/17 14:41	DRE	TAL PEN
Total/NA	Analysis	SM 2320B		1	359638	07/07/17 09:38	BAB	TAL PEN

Lab Chronicle

Client: Southern Company
Project/Site: CCR - Plant Scherer

TestAmerica Job ID: 400-139893-3
SDG: Ash Pond

Client Sample ID: SGWC-18

Lab Sample ID: 400-139893-14

Date Collected: 06/28/17 10:15

Matrix: Water

Date Received: 06/29/17 08:50

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total Recoverable	Prep	3005A			359450	07/05/17 16:06	DRE	TAL PEN
Total Recoverable	Analysis	6020		5	359826	07/06/17 14:46	DRE	TAL PEN
Total/NA	Analysis	SM 2320B		1	359686	07/07/17 10:37	BAB	TAL PEN

Client Sample ID: SGWC-20

Lab Sample ID: 400-139893-15

Date Collected: 06/28/17 11:05

Matrix: Water

Date Received: 06/29/17 08:50

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total Recoverable	Prep	3005A			359450	07/05/17 16:06	DRE	TAL PEN
Total Recoverable	Analysis	6020		5	359826	07/06/17 14:50	DRE	TAL PEN
Total/NA	Analysis	SM 2320B		1	359686	07/07/17 10:43	BAB	TAL PEN

Client Sample ID: SGWC-7

Lab Sample ID: 400-139893-19

Date Collected: 06/27/17 12:45

Matrix: Water

Date Received: 06/29/17 08:50

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total Recoverable	Prep	3005A			359451	07/05/17 16:10	DRE	TAL PEN
Total Recoverable	Analysis	6020		5	359826	07/06/17 18:23	DRE	TAL PEN
Total/NA	Analysis	SM 2320B		1	359498	07/06/17 08:49	BAB	TAL PEN

Client Sample ID: SGWC-6

Lab Sample ID: 400-139893-20

Date Collected: 06/27/17 10:25

Matrix: Water

Date Received: 06/29/17 08:50

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total Recoverable	Prep	3005A			359451	07/05/17 16:10	DRE	TAL PEN
Total Recoverable	Analysis	6020		5	359826	07/06/17 18:45	DRE	TAL PEN
Total/NA	Analysis	SM 2320B		1	359498	07/06/17 09:00	BAB	TAL PEN

Client Sample ID: SGWA-25

Lab Sample ID: 400-139893-21

Date Collected: 06/27/17 09:20

Matrix: Water

Date Received: 06/29/17 08:50

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total Recoverable	Prep	3005A			359451	07/05/17 16:10	DRE	TAL PEN
Total Recoverable	Analysis	6020		5	359826	07/06/17 19:17	DRE	TAL PEN
Total Recoverable	Prep	3005A	RA		359451	07/05/17 16:10	DRE	TAL PEN
Total Recoverable	Analysis	6020	RA	5	360187	07/11/17 18:13	DRE	TAL PEN
Total/NA	Analysis	SM 2320B		1	359498	07/06/17 09:04	BAB	TAL PEN

Lab Chronicle

Client: Southern Company
Project/Site: CCR - Plant Scherer

TestAmerica Job ID: 400-139893-3
SDG: Ash Pond

Client Sample ID: SGWC-17

Lab Sample ID: 400-139893-22

Date Collected: 06/27/17 14:40

Matrix: Water

Date Received: 06/29/17 08:50

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total Recoverable	Prep	3005A			359451	07/05/17 16:10	DRE	TAL PEN
Total Recoverable	Analysis	6020		5	359826	07/06/17 19:21	DRE	TAL PEN
Total Recoverable	Prep	3005A	RA		359451	07/05/17 16:10	DRE	TAL PEN
Total Recoverable	Analysis	6020	RA	5	360187	07/11/17 18:17	DRE	TAL PEN
Total/NA	Analysis	SM 2320B		1	359498	07/06/17 09:10	BAB	TAL PEN

Client Sample ID: SGWC-11

Lab Sample ID: 400-139893-23

Date Collected: 06/27/17 09:20

Matrix: Water

Date Received: 06/29/17 08:50

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total Recoverable	Prep	3005A			359451	07/05/17 16:10	DRE	TAL PEN
Total Recoverable	Analysis	6020		5	359826	07/06/17 19:26	DRE	TAL PEN
Total Recoverable	Prep	3005A	RA		359451	07/05/17 16:10	DRE	TAL PEN
Total Recoverable	Analysis	6020	RA	5	360187	07/11/17 18:22	DRE	TAL PEN
Total/NA	Analysis	SM 2320B		1	359498	07/06/17 09:15	BAB	TAL PEN

Client Sample ID: SGWC-8

Lab Sample ID: 400-139893-24

Date Collected: 06/27/17 09:30

Matrix: Water

Date Received: 06/29/17 08:50

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total Recoverable	Prep	3005A			359451	07/05/17 16:10	DRE	TAL PEN
Total Recoverable	Analysis	6020		5	359826	07/06/17 19:30	DRE	TAL PEN
Total Recoverable	Prep	3005A	RA		359451	07/05/17 16:10	DRE	TAL PEN
Total Recoverable	Analysis	6020	RA	5	360021	07/10/17 15:10	DRE	TAL PEN
Total/NA	Analysis	SM 2320B		1	359498	07/06/17 09:20	BAB	TAL PEN

Client Sample ID: SGWC-12

Lab Sample ID: 400-139893-25

Date Collected: 06/27/17 10:50

Matrix: Water

Date Received: 06/29/17 08:50

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total Recoverable	Prep	3005A			359451	07/05/17 16:10	DRE	TAL PEN
Total Recoverable	Analysis	6020		5	359826	07/06/17 19:35	DRE	TAL PEN
Total Recoverable	Prep	3005A	RA		359451	07/05/17 16:10	DRE	TAL PEN
Total Recoverable	Analysis	6020	RA	5	360021	07/10/17 15:14	DRE	TAL PEN
Total/NA	Analysis	SM 2320B		1	359498	07/06/17 09:25	BAB	TAL PEN

Lab Chronicle

Client: Southern Company
Project/Site: CCR - Plant Scherer

TestAmerica Job ID: 400-139893-3
SDG: Ash Pond

Client Sample ID: SGWC-9

Lab Sample ID: 400-139893-26

Date Collected: 06/27/17 10:50

Matrix: Water

Date Received: 06/29/17 08:50

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total Recoverable	Prep	3005A			359451	07/05/17 16:10	DRE	TAL PEN
Total Recoverable	Analysis	6020		5	359826	07/06/17 19:39	DRE	TAL PEN
Total Recoverable	Prep	3005A	RA		359451	07/05/17 16:10	DRE	TAL PEN
Total Recoverable	Analysis	6020	RA	5	360021	07/10/17 15:19	DRE	TAL PEN
Total/NA	Analysis	SM 2320B		1	359498	07/06/17 09:30	BAB	TAL PEN

Client Sample ID: SGWC-13

Lab Sample ID: 400-139893-27

Date Collected: 06/27/17 11:55

Matrix: Water

Date Received: 06/29/17 08:50

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total Recoverable	Prep	3005A			359451	07/05/17 16:10	DRE	TAL PEN
Total Recoverable	Analysis	6020		5	359826	07/06/17 19:44	DRE	TAL PEN
Total Recoverable	Prep	3005A	RA		359451	07/05/17 16:10	DRE	TAL PEN
Total Recoverable	Analysis	6020	RA	5	360021	07/10/17 15:24	DRE	TAL PEN
Total/NA	Analysis	SM 2320B		1	359498	07/06/17 09:34	BAB	TAL PEN

Client Sample ID: SGWC-10

Lab Sample ID: 400-139893-31

Date Collected: 06/27/17 13:45

Matrix: Water

Date Received: 06/29/17 08:50

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total Recoverable	Prep	3005A			359451	07/05/17 16:10	DRE	TAL PEN
Total Recoverable	Analysis	6020		5	359826	07/06/17 20:11	DRE	TAL PEN
Total Recoverable	Prep	3005A	RA		359451	07/05/17 16:10	DRE	TAL PEN
Total Recoverable	Analysis	6020	RA	5	360021	07/10/17 15:28	DRE	TAL PEN
Total/NA	Analysis	SM 2320B		1	359638	07/07/17 09:05	BAB	TAL PEN

Client Sample ID: SGWC-14

Lab Sample ID: 400-139893-32

Date Collected: 06/27/17 13:55

Matrix: Water

Date Received: 06/29/17 08:50

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total Recoverable	Prep	3005A			359451	07/05/17 16:10	DRE	TAL PEN
Total Recoverable	Analysis	6020		5	359826	07/06/17 20:15	DRE	TAL PEN
Total Recoverable	Prep	3005A	RA		359451	07/05/17 16:10	DRE	TAL PEN
Total Recoverable	Analysis	6020	RA	5	360021	07/10/17 15:32	DRE	TAL PEN
Total/NA	Analysis	SM 2320B		1	359638	07/07/17 09:10	BAB	TAL PEN

Lab Chronicle

Client: Southern Company
Project/Site: CCR - Plant Scherer

TestAmerica Job ID: 400-139893-3
SDG: Ash Pond

Client Sample ID: SGWC-15

Lab Sample ID: 400-139893-33

Date Collected: 06/27/17 14:55

Matrix: Water

Date Received: 06/29/17 08:50

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total Recoverable	Prep	3005A			359451	07/05/17 16:10	DRE	TAL PEN
Total Recoverable	Analysis	6020		5	359826	07/06/17 20:20	DRE	TAL PEN
Total Recoverable	Prep	3005A	RA		359451	07/05/17 16:10	DRE	TAL PEN
Total Recoverable	Analysis	6020	RA	5	360021	07/10/17 15:37	DRE	TAL PEN
Total/NA	Analysis	SM 2320B		1	359638	07/07/17 09:14	BAB	TAL PEN

Client Sample ID: SGWC-16

Lab Sample ID: 400-139893-34

Date Collected: 06/27/17 15:20

Matrix: Water

Date Received: 06/29/17 08:50

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total Recoverable	Prep	3005A			359451	07/05/17 16:10	DRE	TAL PEN
Total Recoverable	Analysis	6020		5	359826	07/06/17 20:24	DRE	TAL PEN
Total Recoverable	Prep	3005A	RA		359451	07/05/17 16:10	DRE	TAL PEN
Total Recoverable	Analysis	6020	RA	5	360021	07/10/17 15:41	DRE	TAL PEN
Total/NA	Analysis	SM 2320B		1	359638	07/07/17 09:18	BAB	TAL PEN

Laboratory References:

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

QC Association Summary

Client: Southern Company
Project/Site: CCR - Plant Scherer

TestAmerica Job ID: 400-139893-3
SDG: Ash Pond

Metals

Prep Batch: 359450

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-139893-1	SGWA-4	Total Recoverable	Water	3005A	
400-139893-3	SGWA-3	Total Recoverable	Water	3005A	
400-139893-4	SGWA-5	Total Recoverable	Water	3005A	
400-139893-6	SGWA-1	Total Recoverable	Water	3005A	
400-139893-8	SGWA-2	Total Recoverable	Water	3005A	
400-139893-9	SGWA-24	Total Recoverable	Water	3005A	
400-139893-10	SGWC-22	Total Recoverable	Water	3005A	
400-139893-11	SGWC-19	Total Recoverable	Water	3005A	
400-139893-12	SGWC-21	Total Recoverable	Water	3005A	
400-139893-13	SGWC-23	Total Recoverable	Water	3005A	
400-139893-14	SGWC-18	Total Recoverable	Water	3005A	
400-139893-15	SGWC-20	Total Recoverable	Water	3005A	
MB 400-359450/1-A ^5	Method Blank	Total Recoverable	Water	3005A	
LCS 400-359450/2-A	Lab Control Sample	Total Recoverable	Water	3005A	
400-139877-A-1-B MS ^5	Matrix Spike	Total Recoverable	Water	3005A	
400-139877-A-1-C MSD ^5	Matrix Spike Duplicate	Total Recoverable	Water	3005A	

Prep Batch: 359451

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-139893-19	SGWC-7	Total Recoverable	Water	3005A	
400-139893-20	SGWC-6	Total Recoverable	Water	3005A	
400-139893-21 - RA	SGWA-25	Total Recoverable	Water	3005A	
400-139893-21	SGWA-25	Total Recoverable	Water	3005A	
400-139893-22 - RA	SGWC-17	Total Recoverable	Water	3005A	
400-139893-22	SGWC-17	Total Recoverable	Water	3005A	
400-139893-23	SGWC-11	Total Recoverable	Water	3005A	
400-139893-23 - RA	SGWC-11	Total Recoverable	Water	3005A	
400-139893-24 - RA	SGWC-8	Total Recoverable	Water	3005A	
400-139893-24	SGWC-8	Total Recoverable	Water	3005A	
400-139893-25	SGWC-12	Total Recoverable	Water	3005A	
400-139893-25 - RA	SGWC-12	Total Recoverable	Water	3005A	
400-139893-26	SGWC-9	Total Recoverable	Water	3005A	
400-139893-26 - RA	SGWC-9	Total Recoverable	Water	3005A	
400-139893-27	SGWC-13	Total Recoverable	Water	3005A	
400-139893-27 - RA	SGWC-13	Total Recoverable	Water	3005A	
400-139893-31	SGWC-10	Total Recoverable	Water	3005A	
400-139893-31 - RA	SGWC-10	Total Recoverable	Water	3005A	
400-139893-32 - RA	SGWC-14	Total Recoverable	Water	3005A	
400-139893-32	SGWC-14	Total Recoverable	Water	3005A	
400-139893-33	SGWC-15	Total Recoverable	Water	3005A	
400-139893-33 - RA	SGWC-15	Total Recoverable	Water	3005A	
400-139893-34	SGWC-16	Total Recoverable	Water	3005A	
400-139893-34 - RA	SGWC-16	Total Recoverable	Water	3005A	
MB 400-359451/1-A ^5	Method Blank	Total Recoverable	Water	3005A	
LCS 400-359451/2-A	Lab Control Sample	Total Recoverable	Water	3005A	

Analysis Batch: 359826

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-139893-1	SGWA-4	Total Recoverable	Water	6020	359450
400-139893-3	SGWA-3	Total Recoverable	Water	6020	359450
400-139893-4	SGWA-5	Total Recoverable	Water	6020	359450

TestAmerica Pensacola

QC Association Summary

Client: Southern Company
Project/Site: CCR - Plant Scherer

TestAmerica Job ID: 400-139893-3
SDG: Ash Pond

Metals (Continued)

Analysis Batch: 359826 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-139893-6	SGWA-1	Total Recoverable	Water	6020	359450
400-139893-8	SGWA-2	Total Recoverable	Water	6020	359450
400-139893-9	SGWA-24	Total Recoverable	Water	6020	359450
400-139893-10	SGWC-22	Total Recoverable	Water	6020	359450
400-139893-11	SGWC-19	Total Recoverable	Water	6020	359450
400-139893-12	SGWC-21	Total Recoverable	Water	6020	359450
400-139893-13	SGWC-23	Total Recoverable	Water	6020	359450
400-139893-14	SGWC-18	Total Recoverable	Water	6020	359450
400-139893-15	SGWC-20	Total Recoverable	Water	6020	359450
400-139893-19	SGWC-7	Total Recoverable	Water	6020	359451
400-139893-20	SGWC-6	Total Recoverable	Water	6020	359451
400-139893-21	SGWA-25	Total Recoverable	Water	6020	359451
400-139893-22	SGWC-17	Total Recoverable	Water	6020	359451
400-139893-23	SGWC-11	Total Recoverable	Water	6020	359451
400-139893-24	SGWC-8	Total Recoverable	Water	6020	359451
400-139893-25	SGWC-12	Total Recoverable	Water	6020	359451
400-139893-26	SGWC-9	Total Recoverable	Water	6020	359451
400-139893-27	SGWC-13	Total Recoverable	Water	6020	359451
400-139893-31	SGWC-10	Total Recoverable	Water	6020	359451
400-139893-32	SGWC-14	Total Recoverable	Water	6020	359451
400-139893-33	SGWC-15	Total Recoverable	Water	6020	359451
400-139893-34	SGWC-16	Total Recoverable	Water	6020	359451
MB 400-359450/1-A ^5	Method Blank	Total Recoverable	Water	6020	359450
MB 400-359451/1-A ^5	Method Blank	Total Recoverable	Water	6020	359451
LCS 400-359450/2-A	Lab Control Sample	Total Recoverable	Water	6020	359450
LCS 400-359451/2-A	Lab Control Sample	Total Recoverable	Water	6020	359451
400-139877-A-1-B MS ^5	Matrix Spike	Total Recoverable	Water	6020	359450
400-139877-A-1-C MSD ^5	Matrix Spike Duplicate	Total Recoverable	Water	6020	359450

Analysis Batch: 360021

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-139893-24 - RA	SGWC-8	Total Recoverable	Water	6020	359451
400-139893-25 - RA	SGWC-12	Total Recoverable	Water	6020	359451
400-139893-26 - RA	SGWC-9	Total Recoverable	Water	6020	359451
400-139893-27 - RA	SGWC-13	Total Recoverable	Water	6020	359451
400-139893-31 - RA	SGWC-10	Total Recoverable	Water	6020	359451
400-139893-32 - RA	SGWC-14	Total Recoverable	Water	6020	359451
400-139893-33 - RA	SGWC-15	Total Recoverable	Water	6020	359451
400-139893-34 - RA	SGWC-16	Total Recoverable	Water	6020	359451

Analysis Batch: 360187

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-139893-21 - RA	SGWA-25	Total Recoverable	Water	6020	359451
400-139893-22 - RA	SGWC-17	Total Recoverable	Water	6020	359451
400-139893-23 - RA	SGWC-11	Total Recoverable	Water	6020	359451

QC Association Summary

Client: Southern Company
Project/Site: CCR - Plant Scherer

TestAmerica Job ID: 400-139893-3
SDG: Ash Pond

General Chemistry

Analysis Batch: 359498

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-139893-1	SGWA-4	Total/NA	Water	SM 2320B	
400-139893-3	SGWA-3	Total/NA	Water	SM 2320B	
400-139893-4	SGWA-5	Total/NA	Water	SM 2320B	
400-139893-6	SGWA-1	Total/NA	Water	SM 2320B	
400-139893-8	SGWA-2	Total/NA	Water	SM 2320B	
400-139893-9	SGWA-24	Total/NA	Water	SM 2320B	
400-139893-19	SGWC-7	Total/NA	Water	SM 2320B	
400-139893-20	SGWC-6	Total/NA	Water	SM 2320B	
400-139893-21	SGWA-25	Total/NA	Water	SM 2320B	
400-139893-22	SGWC-17	Total/NA	Water	SM 2320B	
400-139893-23	SGWC-11	Total/NA	Water	SM 2320B	
400-139893-24	SGWC-8	Total/NA	Water	SM 2320B	
400-139893-25	SGWC-12	Total/NA	Water	SM 2320B	
400-139893-26	SGWC-9	Total/NA	Water	SM 2320B	
400-139893-27	SGWC-13	Total/NA	Water	SM 2320B	
MB 400-359498/4	Method Blank	Total/NA	Water	SM 2320B	
LCS 400-359498/5	Lab Control Sample	Total/NA	Water	SM 2320B	
400-139893-1 DU	SGWA-4	Total/NA	Water	SM 2320B	
400-139893-19 DU	SGWC-7	Total/NA	Water	SM 2320B	

Analysis Batch: 359638

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-139893-10	SGWC-22	Total/NA	Water	SM 2320B	
400-139893-11	SGWC-19	Total/NA	Water	SM 2320B	
400-139893-12	SGWC-21	Total/NA	Water	SM 2320B	
400-139893-13	SGWC-23	Total/NA	Water	SM 2320B	
400-139893-31	SGWC-10	Total/NA	Water	SM 2320B	
400-139893-32	SGWC-14	Total/NA	Water	SM 2320B	
400-139893-33	SGWC-15	Total/NA	Water	SM 2320B	
400-139893-34	SGWC-16	Total/NA	Water	SM 2320B	
MB 400-359638/4	Method Blank	Total/NA	Water	SM 2320B	
LCS 400-359638/5	Lab Control Sample	Total/NA	Water	SM 2320B	
400-140132-E-10 DU	Duplicate	Total/NA	Water	SM 2320B	

Analysis Batch: 359686

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-139893-14	SGWC-18	Total/NA	Water	SM 2320B	
400-139893-15	SGWC-20	Total/NA	Water	SM 2320B	
MB 400-359686/4	Method Blank	Total/NA	Water	SM 2320B	
LCS 400-359686/5	Lab Control Sample	Total/NA	Water	SM 2320B	
400-139893-14 DU	SGWC-18	Total/NA	Water	SM 2320B	

QC Sample Results

Client: Southern Company
Project/Site: CCR - Plant Scherer

TestAmerica Job ID: 400-139893-3
SDG: Ash Pond

Method: 6020 - Metals (ICP/MS)

Lab Sample ID: MB 400-359450/1-A ^5
Matrix: Water
Analysis Batch: 359826

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 359450

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sodium	<170		250	170	ug/L		07/05/17 16:06	07/06/17 12:21	5
Potassium	<110		250	110	ug/L		07/05/17 16:06	07/06/17 12:21	5
Calcium	<130		250	130	ug/L		07/05/17 16:06	07/06/17 12:21	5
Magnesium	<32		130	32	ug/L		07/05/17 16:06	07/06/17 12:21	5

Lab Sample ID: LCS 400-359450/2-A
Matrix: Water
Analysis Batch: 359826

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 359450

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Sodium	5000	5250		ug/L		105	80 - 120
Potassium	5000	5210		ug/L		104	80 - 120
Calcium	5000	4840		ug/L		97	80 - 120
Magnesium	5000	5110		ug/L		102	80 - 120

Lab Sample ID: 400-139877-A-1-B MS ^5
Matrix: Water
Analysis Batch: 359826

Client Sample ID: Matrix Spike
Prep Type: Total Recoverable
Prep Batch: 359450

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Sodium	1900		5000	7330		ug/L		109	75 - 125
Potassium	1000		5000	6370		ug/L		107	75 - 125
Calcium	1700		5000	6590		ug/L		98	75 - 125
Magnesium	1500		5000	6990		ug/L		111	75 - 125

Lab Sample ID: 400-139877-A-1-C MSD ^5
Matrix: Water
Analysis Batch: 359826

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total Recoverable
Prep Batch: 359450

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Sodium	1900		5000	7220		ug/L		106	75 - 125	1	20
Potassium	1000		5000	6240		ug/L		104	75 - 125	2	20
Calcium	1700		5000	6510		ug/L		96	75 - 125	1	20
Magnesium	1500		5000	6800		ug/L		107	75 - 125	3	20

Lab Sample ID: MB 400-359451/1-A ^5
Matrix: Water
Analysis Batch: 359826

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 359451

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sodium	<170		250	170	ug/L		07/05/17 16:10	07/06/17 18:00	5
Potassium	<110		250	110	ug/L		07/05/17 16:10	07/06/17 18:00	5
Calcium	<130		250	130	ug/L		07/05/17 16:10	07/06/17 18:00	5
Magnesium	<32		130	32	ug/L		07/05/17 16:10	07/06/17 18:00	5

QC Sample Results

Client: Southern Company
Project/Site: CCR - Plant Scherer

TestAmerica Job ID: 400-139893-3
SDG: Ash Pond

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

Lab Sample ID: LCS 400-359451/2-A
Matrix: Water
Analysis Batch: 359826

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 359451

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	Limits
Sodium	5000	5330		ug/L		107	80 - 120
Potassium	5000	5310		ug/L		106	80 - 120
Calcium	5000	4930		ug/L		99	80 - 120
Magnesium	5000	5190		ug/L		104	80 - 120

Method: SM 2320B - Alkalinity

Lab Sample ID: MB 400-359498/4
Matrix: Water
Analysis Batch: 359498

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Alkalinity, Total	<0.98		1.0	0.98	mg/L			07/06/17 07:35	1
Bicarbonate Alkalinity as CaCO3	<0.98		1.0	0.98	mg/L			07/06/17 07:35	1
Carbonate Alkalinity as CaCO3	<0.98		1.0	0.98	mg/L			07/06/17 07:35	1

Lab Sample ID: LCS 400-359498/5
Matrix: Water
Analysis Batch: 359498

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	Limits
Alkalinity, Total	100	106		mg/L		106	80 - 120

Lab Sample ID: 400-139893-1 DU
Matrix: Water
Analysis Batch: 359498

Client Sample ID: SGWA-4
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	Limit
Alkalinity, Total	97		97.1		mg/L		0.5	20
Bicarbonate Alkalinity as CaCO3	97		97.1		mg/L		0.5	20
Carbonate Alkalinity as CaCO3	<0.98		<0.98		mg/L		NC	20

Lab Sample ID: 400-139893-19 DU
Matrix: Water
Analysis Batch: 359498

Client Sample ID: SGWC-7
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	Limit
Alkalinity, Total	170		164		mg/L		1	20
Bicarbonate Alkalinity as CaCO3	170		164		mg/L		1	20
Carbonate Alkalinity as CaCO3	<0.98		<0.98		mg/L		NC	20

Lab Sample ID: MB 400-359638/4
Matrix: Water
Analysis Batch: 359638

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Alkalinity, Total	<0.98		1.0	0.98	mg/L			07/07/17 07:38	1
Bicarbonate Alkalinity as CaCO3	<0.98		1.0	0.98	mg/L			07/07/17 07:38	1
Carbonate Alkalinity as CaCO3	<0.98		1.0	0.98	mg/L			07/07/17 07:38	1

TestAmerica Pensacola

QC Sample Results

Client: Southern Company
Project/Site: CCR - Plant Scherer

TestAmerica Job ID: 400-139893-3
SDG: Ash Pond

Lab Sample ID: LCS 400-359638/5
Matrix: Water
Analysis Batch: 359638

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Alkalinity, Total	100	108		mg/L		108	80 - 120

Lab Sample ID: 400-140132-E-10 DU
Matrix: Water
Analysis Batch: 359638

Client Sample ID: Duplicate
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Alkalinity, Total	25		26.1		mg/L		3	20
Bicarbonate Alkalinity as CaCO3	25		26.1		mg/L		3	20
Carbonate Alkalinity as CaCO3	<0.98		<0.98		mg/L		NC	20

Lab Sample ID: MB 400-359686/4
Matrix: Water
Analysis Batch: 359686

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Alkalinity, Total	<0.98		1.0	0.98	mg/L			07/07/17 10:18	1
Bicarbonate Alkalinity as CaCO3	<0.98		1.0	0.98	mg/L			07/07/17 10:18	1
Carbonate Alkalinity as CaCO3	<0.98		1.0	0.98	mg/L			07/07/17 10:18	1

Lab Sample ID: LCS 400-359686/5
Matrix: Water
Analysis Batch: 359686

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Alkalinity, Total	100	104		mg/L		104	80 - 120

Lab Sample ID: 400-139893-14 DU
Matrix: Water
Analysis Batch: 359686

Client Sample ID: SGWC-18
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Alkalinity, Total	<0.98		0.980	J	mg/L		NC	20
Bicarbonate Alkalinity as CaCO3	<0.98		0.980	J	mg/L		NC	20
Carbonate Alkalinity as CaCO3	<0.98		<0.98		mg/L		NC	20

Chain of Custody Record

Client Information		Lab PM: Whitmire, Cheyenne R		Carrier Tracking No(s):		COC No: 400-64422-24951.2		
Client Contact: Joju Abraham		E-Mail: cheyenne.whitmire@testamerica.com		Phone:		Page:		
Company: Southern Company		Due Date Requested:		Analysis Requested		Job #:		
Address: 241 Ralph McGill Blvd SE B10185		TAT Requested (days):		Perform MS/MSD (Yes or No) <input checked="" type="checkbox"/> N <input checked="" type="checkbox"/> D 232B Total, Bicarbonate & Carbonate Alkalinity 6020-K, Na, Mg & Ca		Preservation Codes: A - HCL M - Hexane B - NaOH N - None C - Zn Acetate O - Ash/NaO2 D - Nitric Acid P - Na2O4S E - NaHSO4 Q - Na2SO3 F - MeOH R - Na2S2O3 G - Amchlor S - H2SO4 H - Ascorbic Acid T - TSP Dodecahydrate I - Ice U - Acetone J - DI Water V - MCAA K - EDTA W - pH 4-5 L - EDA Z - other (specify) Other:		
PO #: SCS10347656		Field Filtered Sample (Yes or No)						
WO #: Project #: 40007041		Matrix (W=water, S=solid, O=water/oil, BT=Tissue, A=air)						
SSOW#: Site: Ash Pond		Sample Type (C=comp, G=grab)						
Sample Identification	Sample Date	Sample Time	Preservation Code:	Field Filtered Sample (Yes or No)	232B Total, Bicarbonate & Carbonate Alkalinity	6020-K, Na, Mg & Ca	Total Number of containers	Special Instructions/Note:
SGWA-4	6/24/17	1430	G Water	N	1	1	2	
SGWA-3	6/24/17	1255	G Water	N	1	1	2	
SGWA-5	6/24/17	1025	G Water	N	1	1	2	
SGWA-1	6/24/17	1350	G Water	N	1	1	2	
SGWA-2	6/24/17	1530	G Water	N	1	1	2	
SGWA-24	6/24/17	1455	G Water	N	1	1	2	
Possible Hazard Identification <input type="checkbox"/> Non-Hazard <input type="checkbox"/> Flammable <input type="checkbox"/> Skin Irritant <input type="checkbox"/> Poison B <input type="checkbox"/> Unknown <input type="checkbox"/> Radiological				Sample Disposal (A fee may be assessed if samples are retained longer than 1 month) <input type="checkbox"/> Return To Client <input type="checkbox"/> Disposal By Lab <input type="checkbox"/> Archive For _____ Months				
Deliverable Requested: I, II, III, IV, Other (specify)				Special Instructions/QC Requirements: Results are subject to Attorney-Client Privilege				
Empty Kit Relinquished by:		Date:		Time:		Method of Shipment:		
Relinquished by: <i>Ben Elrod</i>		Date/Time: 6/27/17 0800		Company: Golder		Date/Time: 6-27-17 0800 Company: EMOW		
Relinquished by: <i>T Elrod</i>		Date/Time: 6-27-17 1000		Company: EMOW		Date/Time: 6/27/17 1005 Company: EMOW		
Relinquished by: <i>Ben Elrod</i>		Date/Time: 6/27/17 1600		Company: EMOW		Date/Time: 6-28-17 0853 Company: EMOW		
Custody Seals Intact: <input type="checkbox"/> Yes <input type="checkbox"/> No				Cooler Temperature(s) / C and Other Remarks: <i>8.2 F RPT</i>				



Chain of Custody Record

Client Information		Sample: Ben Hodges		Lab PM: Whitmire, Cheyenne R		Carrier Tracking No(s):		COC No: 400-64422-24951.2	
Client Contact: Joju Abraham		Phone:		E-Mail: cheyenne.whitmire@testamericainc.com		Page:		Job #:	
Southern Company		Due Date Requested:		Analysis Requested		Total Number of Containers		Preservation Codes: M - Hexene N - None O - AshNaO2 P - Na2O4S Q - Na2SO3 R - Na2SO4 S - H2SO4 G - Amchlor T - TSP Dodecahydrate U - Acetone V - MCAA W - pH 4-5 L - EDTA Z - other (specify) Other:	
Address: 241 Ralph McGill Blvd SE B10185		TAT Requested (days):							
City: Atlanta		PO #: SCS10347656							
State, Zip: GA, 30308		WO #:							
Phone:		Project #:		Field Filtered Sample (Yes or No)		Perform MS/MSD (Yes or No)		2320B-Total, Bicarbonates & Carbonate Alkalinity	
Email: JAbraham@southernco.com		SSOW#:		Sample Date		Sample Time		Sample Type (C=Comp, G=Grab)	
Project Name: CCR - Scherer		Site: Ash Pond		Sample Date		Sample Time		Matrix (W=water, S=solid, O=soil, G=grab)	
Site: Ash Pond		Preservation Code:		Sample Date		Sample Time		Matrix (W=water, S=solid, O=soil, G=grab)	
Sample Identification		Sample Date		Sample Time		Sample Type (C=Comp, G=Grab)		Matrix (W=water, S=solid, O=soil, G=grab)	
SGWC-22	6/28/17	0915	G	Water	N	1	1	1	6020-K, Na, Mg & Ca
SGWC-19	6/28/17	0910	G	Water	N	1	1	1	
SGWC-21	6/28/17	0935	G	Water	N	1	1	1	
SGWC-23	6/28/17	1035	G	Water	N	1	1	1	
SGWC-18	6/28/17	1015	G	Water	N	1	1	1	
SGWC-20	6/28/17	1105	G	Water	N	1	1	1	
Possible Hazard Identification <input type="checkbox"/> Non-Hazard <input type="checkbox"/> Flammable <input type="checkbox"/> Skin Irritant <input type="checkbox"/> Poison B <input type="checkbox"/> Unknown <input type="checkbox"/> Radiological									
Deliverable Requested: I, II, III, IV, Other (specify)									
Empty Kit Relinquished by: <i>Daniela Whitmire</i>									
Relinquished by:		Date:		Date/Time:		Date/Time:		Date/Time:	
<i>Daniela Whitmire</i>		6/28/17 1520		6/28/17 1520		6/28/17 1520		6/28/17 1520	
Relinquished by:		Date:		Date/Time:		Date/Time:		Date/Time:	
<i>Daniela Whitmire</i>		6/28/17 1630		6/28/17 1630		6/28/17 1630		6/28/17 1630	
Relinquished by:		Date:		Date/Time:		Date/Time:		Date/Time:	
<i>Daniela Whitmire</i>		6/28/17 1630		6/28/17 1630		6/28/17 1630		6/28/17 1630	
Custody Seals Intact:		Custody Seal No.:		Cooler Temperature(s) °C and Other Remarks:		Cooler Temperature(s) °C and Other Remarks:		Cooler Temperature(s) °C and Other Remarks:	
Δ Yes Δ No									



Chain of Custody Record

Client Information
 Client Contact: Ben Hodges
 Joju Abraham
 Southern Company
 Address: 241 Ralph McGill Blvd SE B10185
 City: Atlanta
 State, Zip: GA, 30308
 Phone: SCS10347656
 PO #: SCS10347656
 WO #:
 Email: JAbraham@southernco.com
 Project Name: CCR - Scherer
 Site: Ash Pond

Lab Pmt: Whitmire, Cheyenne R
E-Mail: cheyenne.whitmire@testamericainc.com
GOC No: 400-64422-24951.2
Page:
Carrier Tracking No(s):
Job #:
Analysis Requested:
Due Date Requested:
TAT Requested (days):
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
 Other:
 M - Hexane
 N - None
 O - AsNaO2
 P - Na2O4S
 Q - Na2SO3
 R - Na2SO3
 S - H2SO4
 T - TSP Dodecahydrate
 U - Acetone
 V - MCAA
 W - pH 4.5
 Z - other (specify)

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (Hexane, Formal, Over-salt, etc.)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	230B - Total, Bicarbonate & Carbonate Alkalinity	6020 - K, Na, Mg & Ca	Total Number of Containers	Special Instructions/Note:
SGWC-7	6/27/17	1245	G	Water	N	1	1	1	2	
SGWC-6	6/27/17	1025	G	Water	N	1	1	1	2	
SGWA-25	6/27/17	0920	G	Water	N	1	1	1	2	
SGWC-17	6/27/17	1440	G	Water	N	1	1	1	2	
SGWC-11	6/27/17	0920	G	Water	N	1	1	1	2	
SGWC-8	6/27/17	0930	G	Water	N	1	1	1	2	
SGWC-12	6/27/17	1050	G	Water	N	1	1	1	2	
SGWC-9	6/27/17	1050	G	Water	N	1	1	1	2	
SGWC-13	6/27/17	1155	G	Water	N	1	1	1	2	
SGWC-10	6/27/17	1345	G	Water	N	1	1	1	2	
SGWC-14	6/27/17	1355	G	Water	N	1	1	1	2	
SGWC-15	6/27/17	1455	G	Water	N	1	1	1	2	
SGWC-16	6/27/17	1520	G	Water	N	1	1	1	2	

Possible Hazard Identification
 Non-Hazard Flammable Skin Irritant Poison B Unknown Radiological
Deliverable Requested: I, II, III, IV, Other (specify)
Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
 Return To Client Disposal By Lab Archive For _____ Months
Special Instructions/QC Requirements: Results are subject to Attorney-Client Privilege

Empty Kit Relinquished by:
Relinquished by: T Elroy
 Date/Time: 6/28/17 0800
 Company: Golden
Relinquished by: T Elroy
 Date/Time: 6/28/17 0950
 Company: Golden
Relinquished by: T Elroy
 Date/Time: 6/28/17 1600
 Company: Golden
Custody Seals Intact:
 Δ Yes Δ No
Custody Seal No.: 0.0, 4.5C, IR-2
Relinquished by: T Elroy
 Date/Time: 6/28/17 0800
 Company: Golden
Relinquished by: T Elroy
 Date/Time: 6/28/17 0950
 Company: Golden
Relinquished by: T Elroy
 Date/Time: 6/28/17 1600
 Company: Golden
Method of Shipment:
Received by: T Elroy
 Date/Time: 6/28/17 0800
 Company: Golden
Received by: T Elroy
 Date/Time: 6/28/17 0950
 Company: Golden
Received by: T Elroy
 Date/Time: 6/28/17 1600
 Company: Golden
Cooler Temperature(s) °C and Other Remarks: 0.0, 4.5C, IR-2



Login Sample Receipt Checklist

Client: Southern Company

Job Number: 400-139893-3

SDG Number: Ash Pond

Login Number: 139893

List Number: 1

Creator: Siddoway, Benjamin

List Source: TestAmerica Pensacola

Question	Answer	Comment
Radioactivity wasn't checked or is \leq background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	N/A	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	0.0°C, 4.5°C IR-2
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.	False	Sample dates corrected from 6/24 to 6/26 per client. FD-3(AP) labeled FB-3(AP).
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 <math><6\text{mm}</math> (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: Southern Company
Project/Site: CCR - Plant Scherer

TestAmerica Job ID: 400-139893-3
SDG: Ash Pond

Laboratory: TestAmerica Pensacola

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

Authority	Program	EPA Region	Identification Number	Expiration Date
Alabama	State Program	4	40150	06-30-18
Arizona	State Program	9	AZ0710	01-11-18
Arkansas DEQ	State Program	6	88-0689	09-01-17
California	ELAP	9	2510	03-31-18
Florida	NELAP	4	E81010	06-30-18
Georgia	State Program	4	N/A	06-30-18
Illinois	NELAP	5	200041	10-09-17
Iowa	State Program	7	367	08-01-18
Kansas	NELAP	7	E-10253	10-31-17
Kentucky (UST)	State Program	4	53	06-30-17 *
Kentucky (WW)	State Program	4	98030	12-31-17
L-A-B	ISO/IEC 17025		L2471	02-22-20
Louisiana	NELAP	6	30976	06-30-18
Louisiana (DW)	NELAP	6	LA170005	12-31-17
Maryland	State Program	3	233	09-30-18
Massachusetts	State Program	1	M-FL094	06-30-18
Michigan	State Program	5	9912	06-30-17 *
New Jersey	NELAP	2	FL006	06-30-18
North Carolina (WW/SW)	State Program	4	314	12-31-17
Oklahoma	State Program	6	9810	08-31-17
Pennsylvania	NELAP	3	68-00467	01-31-18
Rhode Island	State Program	1	LAO00307	12-30-17
South Carolina	State Program	4	96026	06-30-17 *
Tennessee	State Program	4	TN02907	06-30-18
Texas	NELAP	6	T104704286-16-10	09-30-17
USDA	Federal		P330-16-00172	05-24-19
Virginia	NELAP	3	460166	06-14-18
Washington	State Program	10	C915	05-15-18
West Virginia DEP	State Program	3	136	06-30-18

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

Product Name: Low-Flow System

Date: 2017-06-26 13:52:47

Project Information:

Operator Name D. Herrera
Company Name Golder Associates
Project Name 1662350
Site Name Plant Scherer
Latitude 0° 0' 0"
Longitude 0° 0' 0"
Sonde SN 440279
Turbidity Make/Model LaMotte

Pump Information:

Pump Model/Type QED Well Wizard
Tubing Type poly
Tubing Diameter .170 in
Tubing Length 44.60 ft

Pump placement from TOC 44.60 ft

Well Information:

Well ID SGWA-1
Well diameter 2 in
Well Total Depth 53.40 ft
Screen Length 10 ft
Depth to Water 40.70 ft

Pumping Information:

Final Pumping Rate 200 mL/min
Total System Volume 0.6840687 L
Calculated Sample Rate 300 sec
Stabilization Drawdown 3 in
Total Volume Pumped 7 L

Low-Flow Sampling Stabilization Summary

	Time	Elapsed	Temp C	pH	SpCond μ S/cm	Turb NTU	DTW ft	RDO mg/L	ORP mV
Stabilization			+/- 0.5	+/- 0.1	+/- 5%	+/- 10		+/- 0.2	+/- 10
Last 5	13:27:39	600.03	21.65	5.20	32.77	1.55	40.90	0.67	168.85
Last 5	13:32:39	900.03	21.27	5.23	32.45	1.70	40.95	0.41	168.82
Last 5	13:37:39	1200.03	20.84	5.21	32.58	2.53	40.95	0.35	173.20
Last 5	13:42:39	1500.03	20.62	5.24	32.76	3.63	40.95	0.28	172.24
Last 5	13:47:39	1800.03	20.87	5.25	33.31	3.88	40.95	0.25	172.36
Variance 0			-0.43	-0.02	0.13			-0.06	4.38
Variance 1			-0.22	0.03	0.17			-0.07	-0.96
Variance 2			0.25	0.01	0.55			-0.02	0.12

Notes

Sampled SGWA-1 at 1350 on 6/26/17

Grab Samples

Product Name: Low-Flow System

Date: 2017-06-26 15:33:17

Project Information:

Operator Name D. Herrera
Company Name Golder Associates
Project Name 1662350
Site Name Plant Scherer
Latitude 0° 0' 0"
Longitude 0° 0' 0"
Sonde SN 440279
Turbidity Make/Model LaMotte

Pump Information:

Pump Model/Type QED Well Wizard
Tubing Type poly
Tubing Diameter .170 in
Tubing Length 91.05 ft

Pump placement from TOC 91.05 ft

Well Information:

Well ID SGWA-2
Well diameter 2 in
Well Total Depth 98.5 ft
Screen Length 10 ft
Depth to Water 40.36 ft

Pumping Information:

Final Pumping Rate 200 mL/min
Total System Volume 0.8913947 L
Calculated Sample Rate 300 sec
Stabilization Drawdown 25.68 in
Total Volume Pumped 7 L

Low-Flow Sampling Stabilization Summary

	Time	Elapsed	Temp C	pH	SpCond μ S/cm	Turb NTU	DTW ft	RDO mg/L	ORP mV
Stabilization			+/- 0.5	+/- 0.1	+/- 5%	+/- 10		+/- 0.2	+/- 10
Last 5	15:09:11	900.03	21.92	6.80	116.83	3.68	42.25	4.14	101.56
Last 5	15:14:11	1200.03	21.64	6.81	117.13	1.35	42.35	4.13	100.50
Last 5	15:19:11	1500.03	22.09	6.79	117.37	1.99	42.40	4.21	98.30
Last 5	15:24:11	1800.03	21.82	6.80	117.15	1.36	42.50	4.24	95.92
Last 5	15:29:11	2100.03	21.58	6.82	115.91	2.33	42.50	4.26	94.77
Variance 0			0.45	-0.02	0.24			0.08	-2.21
Variance 1			-0.27	0.01	-0.22			0.03	-2.38
Variance 2			-0.24	0.02	-1.24			0.02	-1.15

Notes

Sampled SGWA-2 on 6/26/17 at 15:30

Grab Samples

Product Name: Low-Flow System

Date: 2017-06-26 12:54:02

Project Information:

Operator Name Ben Hodges
Company Name Golder
Project Name Scherer
Site Name Plant Scherer
Latitude 0° 0' 0"
Longitude 0° 0' 0"
Sonde SN 497259
Turbidity Make/Model LaMotte

Pump Information:

Pump Model/Type QED Well Wizard
Tubing Type polyethylene
Tubing Diameter .17 in
Tubing Length 44.9 ft

Pump placement from TOC 44.9 ft

Well Information:

Well ID SGWA-3
Well diameter 2 in
Well Total Depth 52.8 ft
Screen Length 10 ft
Depth to Water 34.59 ft

Pumping Information:

Final Pumping Rate 100 mL/min
Total System Volume 0.6854077 L
Calculated Sample Rate 300 sec
Stabilization Drawdown 26.52 in
Total Volume Pumped 3 L

Low-Flow Sampling Stabilization Summary

	Time	Elapsed	Temp C	pH	SpCond μ S/cm	Turb NTU	DTW ft	RDO mg/L	ORP mV
Stabilization			+/- 0.5	+/- 0.1	+/- 5%	+/- 10		+/- 10%	+/- 10
Last 5	12:33:05	599.90	22.26	5.76	72.39	0.43	35.75	3.12	50.58
Last 5	12:38:05	899.90	21.92	5.69	71.00	0.50	36.16	2.56	50.74
Last 5	12:43:05	1199.90	21.74	5.69	71.02	0.42	36.50	2.23	50.43
Last 5	12:48:05	1499.90	22.08	5.69	71.36	0.59	36.69	2.08	49.92
Last 5	12:53:05	1799.90	22.49	5.68	72.12	0.57	36.80	2.14	51.42
Variance 0			-0.17	-0.01	0.02			-0.33	-0.30
Variance 1			0.34	0.00	0.33			-0.14	-0.51
Variance 2			0.41	-0.01	0.76			0.06	1.50

Notes

Sampled at 1255

Grab Samples

Product Name: Low-Flow System

Date: 2017-06-26 14:29:01

Project Information:

Operator Name Ben Hodges
Company Name Golder
Project Name Scherer
Site Name Plant Scherer
Latitude 0° 0' 0"
Longitude 0° 0' 0"
Sonde SN 497259
Turbidity Make/Model LaMotte

Pump Information:

Pump Model/Type QED Well Wizard
Tubing Type polyethylene
Tubing Diameter .17 in
Tubing Length 54.80 ft

Pump placement from TOC 54.80 ft

Well Information:

Well ID SGWA-4
Well diameter 2 in
Well Total Depth 63.2 ft
Screen Length 10 ft
Depth to Water 49.88 ft

Pumping Information:

Final Pumping Rate 100 mL/min
Total System Volume 0.7295956 L
Calculated Sample Rate 300 sec
Stabilization Drawdown 17.76 in
Total Volume Pumped 3.5 L

Low-Flow Sampling Stabilization Summary

	Time	Elapsed	Temp C	pH	SpCond μ S/cm	Turb NTU	DTW ft	RDO mg/L	ORP mV
Stabilization			+/- 0.5	+/- 0.1	+/- 5%	+/- 10		+/- 10%	+/- 10
Last 5	14:07:29	900.03	21.59	6.55	169.22	0.39	50.98	5.19	59.99
Last 5	14:12:29	1200.03	21.32	6.50	169.13	0.28	51.12	4.62	60.03
Last 5	14:17:29	1499.95	21.00	6.47	167.82	0.48	51.24	4.17	60.98
Last 5	14:22:29	1799.95	20.86	6.48	168.20	0.29	51.30	3.96	60.36
Last 5	14:27:29	2099.95	20.92	6.48	169.17	0.30	51.36	3.91	60.33
Variance 0			-0.31	-0.03	-1.31			-0.45	0.95
Variance 1			-0.15	0.01	0.38			-0.21	-0.62
Variance 2			0.06	-0.00	0.97			-0.05	-0.02

Notes

Sampled at 1430

Grab Samples

Product Name: Low-Flow System

Date: 2017-06-26 10:22:28

Project Information:

Operator Name Ben Hodges
Company Name Golder
Project Name Scherer
Site Name Plant Scherer
Latitude 0° 0' 0"
Longitude 0° 0' 0"
Sonde SN 497259
Turbidity Make/Model LaMotte

Pump Information:

Pump Model/Type QED Well Wizard
Tubing Type polyethylene
Tubing Diameter .17 in
Tubing Length 24.36 ft

Pump placement from TOC 24.36 ft

Well Information:

Well ID SGWA-5
Well diameter 2 in
Well Total Depth 33.1 ft
Screen Length 10 ft
Depth to Water 17.51 ft

Pumping Information:

Final Pumping Rate 150 mL/min
Total System Volume 0.593729 L
Calculated Sample Rate 300 sec
Stabilization Drawdown 5.52 in
Total Volume Pumped 3.75 L

Low-Flow Sampling Stabilization Summary

	Time	Elapsed	Temp C	pH	SpCond μ S/cm	Turb NTU	DTW ft	RDO mg/L	ORP mV
Stabilization			+/- 0.5	+/- 0.1	+/- 5%	+/- 10		+/- 10%	+/- 10
Last 5	10:00:51	300.17	19.77	5.66	51.91	1.54	17.91	4.49	77.90
Last 5	10:05:51	600.03	19.35	5.56	51.77	0.64	17.97	3.88	62.16
Last 5	10:10:51	900.03	19.36	5.54	51.67	0.79	17.97	3.28	56.34
Last 5	10:15:51	1200.03	19.40	5.54	51.52	0.55	17.97	3.21	52.51
Last 5	10:20:51	1500.03	19.31	5.54	51.23	0.68	17.97	3.19	51.27
Variance 0			0.01	-0.02	-0.10			-0.59	-5.82
Variance 1			0.04	0.01	-0.15			-0.07	-3.83
Variance 2			-0.09	-0.01	-0.30			-0.02	-1.24

Notes

Sampled at 1025/FB-1(AP)

Grab Samples

Product Name: Low-Flow System

Date: 2017-06-27 10:23:19

Project Information:

Operator Name Ben Hodges
Company Name Golder
Project Name Scherer
Site Name Plant Scherer
Latitude 0° 0' 0"
Longitude 0° 0' 0"
Sonde SN 497259
Turbidity Make/Model LaMotte

Pump Information:

Pump Model/Type QED Well Wizard
Tubing Type polyethylene
Tubing Diameter .17 in
Tubing Length 19.21 ft

Pump placement from TOC 19.21 ft

Well Information:

Well ID SGWC-6
Well diameter 2 in
Well Total Depth 27.6 ft
Screen Length 10 ft
Depth to Water 15.16 ft

Pumping Information:

Final Pumping Rate 100 mL/min
Total System Volume 0.5707424 L
Calculated Sample Rate 300 sec
Stabilization Drawdown 20.88 in
Total Volume Pumped 3 L

Low-Flow Sampling Stabilization Summary

	Time	Elapsed	Temp C	pH	SpCond μ S/cm	Turb NTU	DTW ft	RDO mg/L	ORP mV
Stabilization			+/- 0.5	+/- 0.1	+/- 5%	+/- 10		+/- 10%	+/- 10
Last 5	10:01:35	600.03	19.23	6.20	92.64	0.61	16.46	0.85	62.02
Last 5	10:06:35	900.03	19.24	6.21	93.36	0.52	16.62	0.52	60.30
Last 5	10:11:35	1200.03	19.32	6.21	94.25	0.59	16.73	0.39	59.85
Last 5	10:16:35	1500.03	19.30	6.22	95.05	0.55	16.83	0.34	59.41
Last 5	10:21:35	1800.03	19.43	6.23	95.73	0.52	16.90	0.31	59.12
Variance 0			0.08	0.00	0.89			-0.12	-0.45
Variance 1			-0.01	0.01	0.80			-0.06	-0.44
Variance 2			0.13	0.01	0.67			-0.02	-0.29

Notes

Sampled at 1025

Grab Samples

Product Name: Low-Flow System

Date: 2017-06-27 12:46:47

Project Information:

Operator Name Ben Hodges
Company Name Golder
Project Name Scherer
Site Name Plant Scherer
Latitude 0° 0' 0"
Longitude 0° 0' 0"
Sonde SN 497259
Turbidity Make/Model LaMotte

Pump Information:

Pump Model/Type QED Well Wizard
Tubing Type polyethylene
Tubing Diameter .17 in
Tubing Length 29.75 ft

Pump placement from TOC 29.75 ft

Well Information:

Well ID SGWC-7
Well diameter 2 in
Well Total Depth 37.7 ft
Screen Length 10 ft
Depth to Water 14.23 ft

Pumping Information:

Final Pumping Rate 150 mL/min
Total System Volume 0.6177869 L
Calculated Sample Rate 300 sec
Stabilization Drawdown 2.28 in
Total Volume Pumped 4.5 L

Low-Flow Sampling Stabilization Summary

	Time	Elapsed	Temp C	pH	SpCond μ S/cm	Turb NTU	DTW ft	RDO mg/L	ORP mV
Stabilization			+/- 0.5	+/- 0.1	+/- 5%	+/- 10		+/- 10%	+/- 10
Last 5	12:25:02	600.03	21.01	6.61	382.16	0.37	14.37	0.91	14.66
Last 5	12:30:02	900.03	20.65	6.61	371.21	0.37	14.39	0.70	16.51
Last 5	12:35:02	1199.88	20.53	6.59	372.93	0.26	14.41	0.31	14.28
Last 5	12:40:02	1499.88	20.44	6.57	365.05	0.39	14.42	0.20	13.53
Last 5	12:45:02	1799.88	20.47	6.56	361.53	0.30	14.42	0.18	12.20
Variance 0			-0.12	-0.02	1.72			-0.39	-2.23
Variance 1			-0.08	-0.02	-7.88			-0.11	-0.75
Variance 2			0.03	-0.00	-3.53			-0.02	-1.33

Notes

Sampled at 1245

Grab Samples

Product Name: Low-Flow System

Date: 2017-06-27 09:28:11

Project Information:

Operator Name D.Thomas
Company Name Golder Associates
Project Name 1662350
Site Name Plant Scherer
Latitude 0° 0' 0"
Longitude 0° 0' 0"
Sonde SN 501336
Turbidity Make/Model LaMotte

Pump Information:

Pump Model/Type QED Well Wizard
Tubing Type poly
Tubing Diameter .170 in
Tubing Length 34.2 ft

Pump placement from TOC 34.2 ft

Well Information:

Well ID SGWC-8
Well diameter 2 in
Well Total Depth 42.6 ft
Screen Length 10 ft
Depth to Water 22.15 ft

Pumping Information:

Final Pumping Rate 200 mL/min
Total System Volume 0.6376491 L
Calculated Sample Rate 300 sec
Stabilization Drawdown 2.04 in
Total Volume Pumped 6 L

Low-Flow Sampling Stabilization Summary

	Time	Elapsed	Temp C	pH	SpCond μ S/cm	Turb NTU	DTW ft	RDO mg/L	ORP mV
Stabilization			+/- 0.5	+/- 0.1	+/- 5%	+/- 10		+/- 10%	+/- 10
Last 5	09:06:35	600.03	18.87	6.43	615.00	0.78	22.32	2.30	83.92
Last 5	09:11:35	900.03	18.88	6.43	614.70	0.19	22.32	2.16	82.42
Last 5	09:16:35	1200.03	18.88	6.41	613.89	0.09	22.32	1.95	81.50
Last 5	09:21:35	1500.03	18.87	6.41	612.63	0.00	22.32	1.90	80.62
Last 5	09:26:37	1802.03	18.91	6.41	611.03	0.00	22.32	1.86	80.10
Variance 0			0.00	-0.01	-0.81			-0.21	-0.92
Variance 1			-0.00	-0.00	-1.26			-0.05	-0.89
Variance 2			0.04	-0.00	-1.60			-0.03	-0.52

Notes

Began purging SGWC-8 at 0856
Stopped purging SGWC-8 at 0926 and began sampling

Grab Samples

Product Name: Low-Flow System

Date: 2017-06-27 10:50:27

Project Information:

Operator Name D.Thomas
Company Name Golder Associates
Project Name 1662350
Site Name Plant Scherer
Latitude 0° 0' 0"
Longitude 0° 0' 0"
Sonde SN 501336
Turbidity Make/Model LaMotte

Pump Information:

Pump Model/Type QED Well Wizard
Tubing Type poly
Tubing Diameter .170 in
Tubing Length 29.4 ft

Pump placement from TOC 29.4 ft

Well Information:

Well ID SGWC-9
Well diameter 2 in
Well Total Depth 37.8 ft
Screen Length 10 ft
Depth to Water 20.64 ft

Pumping Information:

Final Pumping Rate 200 mL/min
Total System Volume 0.6162246 L
Calculated Sample Rate 300 sec
Stabilization Drawdown 5.64 in
Total Volume Pumped 3 L

Low-Flow Sampling Stabilization Summary

	Time	Elapsed	Temp C	pH	SpCond μ S/cm	Turb NTU	DTW ft	RDO mg/L	ORP mV
Stabilization			+/- 0.5	+/- 0.1	+/- 5%	+/- 10		+/- 10%	+/- 10
Last 5	10:27:05	300.10	19.00	6.13	782.72	4.48	21.42	1.18	77.38
Last 5	10:32:05	599.96	19.23	6.12	785.86	4.59	21.21	1.04	76.27
Last 5	10:37:05	899.96	19.40	6.10	783.33	4.33	21.11	0.34	75.28
Last 5	10:42:05	1199.96	19.45	6.09	778.88	4.05	21.11	0.29	74.34
Last 5	10:47:05	1499.96	19.48	6.09	776.82	3.66	21.11	0.36	73.41
Variance 0			0.18	-0.02	-2.54			-0.70	-0.99
Variance 1			0.05	-0.01	-4.45			-0.05	-0.94
Variance 2			0.03	0.00	-2.06			0.07	-0.93

Notes

Began purging SGWC-9 at 1022

Started purging at 200ml/min switched to 100 ml/min because of NTU increase. Stopped purging SGWC-9 at 1047 and began sampling.

Grab Samples

Product Name: Low-Flow System

Date: 2017-06-27 13:48:41

Project Information:

Operator Name D.Thomas
Company Name Golder Associates
Project Name 1662350
Site Name Plant Scherer
Latitude 0° 0' 0"
Longitude 0° 0' 0"
Sonde SN 501336
Turbidity Make/Model LaMotte

Pump Information:

Pump Model/Type QED Well Wizard
Tubing Type poly
Tubing Diameter .170 in
Tubing Length 24.2 ft

Pump placement from TOC 24.2 ft

Well Information:

Well ID SGWC-10
Well diameter 2 in
Well Total Depth 32.60 ft
Screen Length 10 ft
Depth to Water 17.0 ft

Pumping Information:

Final Pumping Rate 200 mL/min
Total System Volume 0.5930148 L
Calculated Sample Rate 300 sec
Stabilization Drawdown 28.8 in
Total Volume Pumped 10 L

Low-Flow Sampling Stabilization Summary

	Time	Elapsed	Temp C	pH	SpCond μ S/cm	Turb NTU	DTW ft	RDO mg/L	ORP mV
Stabilization			+/- 0.5	+/- 0.1	+/- 5%	+/- 10		+/- 10%	+/- 10
Last 5	13:25:45	1800.03	19.80	5.41	73.46	0.52	19.35	1.38	73.88
Last 5	13:30:45	2099.93	19.68	5.42	79.74	0.46	19.35	1.03	73.80
Last 5	13:35:45	2399.93	19.77	5.45	86.42	0.60	19.40	0.77	72.92
Last 5	13:40:45	2699.93	19.76	5.46	91.06	0.41	19.40	0.59	72.29
Last 5	13:45:47	3001.93	19.69	5.46	94.15	0.58	19.40	0.51	71.45
Variance 0			0.09	0.03	6.69			-0.25	-0.87
Variance 1			-0.01	0.01	4.64			-0.18	-0.64
Variance 2			-0.07	0.00	3.09			-0.08	-0.84

Notes

Started purging at 1255
Stopped purging SGWC-10 at 1345 and began sampling

Grab Samples

Product Name: Low-Flow System

Date: 2017-06-27 09:21:41

Project Information:

Operator Name D. Herrera
Company Name Golder Associates
Project Name 1662350
Site Name Plant Scherer
Latitude 0° 0' 0"
Longitude 0° 0' 0"
Sonde SN 440279
Turbidity Make/Model LaMotte

Pump Information:

Pump Model/Type QED Well Wizard
Tubing Type poly
Tubing Diameter .170 in
Tubing Length 34.3 ft

Pump placement from TOC 34.3 ft

Well Information:

Well ID SGWC-11
Well diameter 2 in
Well Total Depth 42.7 ft
Screen Length 10 ft
Depth to Water 18.46 ft

Pumping Information:

Final Pumping Rate 200 mL/min
Total System Volume 0.6380954 L
Calculated Sample Rate 300 sec
Stabilization Drawdown 35.28 in
Total Volume Pumped 7 L

Low-Flow Sampling Stabilization Summary

	Time	Elapsed	Temp C	pH	SpCond μ S/cm	Turb NTU	DTW ft	RDO mg/L	ORP mV
Stabilization			+/- 0.5	+/- 0.1	+/- 5%	+/- 10		+/- 0.2	+/- 10
Last 5	08:58:17	600.14	19.49	5.51	95.65	0.64	20.80	1.17	74.27
Last 5	09:03:17	900.14	19.37	5.52	91.91	0.45	21.10	1.54	75.85
Last 5	09:08:17	1200.14	19.40	5.46	91.92	0.43	21.30	1.37	77.39
Last 5	09:13:17	1500.14	19.41	5.44	90.64	0.34	21.35	1.01	77.97
Last 5	09:18:17	1800.14	19.61	5.47	90.00	0.37	21.35	1.03	76.52
Variance 0			0.03	-0.06	0.01			-0.17	1.54
Variance 1			0.01	-0.01	-1.27			-0.36	0.58
Variance 2			0.20	0.03	-0.65			0.01	-1.45

Notes

Sampled SGWC-11 at 920 on 6/27/17

Grab Samples

Product Name: Low-Flow System

Date: 2017-06-27 10:52:20

Project Information:

Operator Name D. Herrera
Company Name Golder Associates
Project Name 1662350
Site Name Plant Scherer
Latitude 0° 0' 0"
Longitude 0° 0' 0"
Sonde SN 440279
Turbidity Make/Model LaMotte

Pump Information:

Pump Model/Type QED Well Wizard
Tubing Type poly
Tubing Diameter .170 in
Tubing Length 41.87 ft

Pump placement from TOC 41.87 ft

Well Information:

Well ID SGWC-12
Well diameter 2 in
Well Total Depth 50.2 ft
Screen Length 10 ft
Depth to Water 14.92 ft

Pumping Information:

Final Pumping Rate 200 mL/min
Total System Volume 0.6718835 L
Calculated Sample Rate 300 sec
Stabilization Drawdown 44.76 in
Total Volume Pumped 7 L

Low-Flow Sampling Stabilization Summary

	Time	Elapsed	Temp C	pH	SpCond μ S/cm	Turb NTU	DTW ft	RDO mg/L	ORP mV
Stabilization			+/- 0.5	+/- 0.1	+/- 5%	+/- 10		+/- 0.2	+/- 10
Last 5	10:30:51	900.03	20.26	6.23	329.84	2.54	18.20	0.81	45.38
Last 5	10:35:51	1200.03	20.23	6.20	329.50	2.18	18.30	0.63	42.86
Last 5	10:40:51	1500.03	20.30	6.23	328.76	1.81	18.50	0.55	38.93
Last 5	10:45:51	1800.03	20.34	6.21	328.19	1.30	18.60	0.48	37.32
Last 5	10:50:51	2100.03	20.43	6.23	326.74	1.26	18.65	0.42	34.69
Variance 0			0.08	0.02	-0.74			-0.08	-3.94
Variance 1			0.04	-0.01	-0.57			-0.06	-1.60
Variance 2			0.09	0.02	-1.45			-0.07	-2.63

Notes

Sampled SGWC-12 at 1050 on 6/27/17

Grab Samples

Product Name: Low-Flow System

Date: 2017-06-27 11:57:11

Project Information:

Operator Name D. Herrera
Company Name Golder Associates
Project Name 1662350
Site Name Plant Scherer
Latitude 0° 0' 0"
Longitude 0° 0' 0"
Sonde SN 440279
Turbidity Make/Model LaMotte

Pump Information:

Pump Model/Type QED Well Wizard
Tubing Type poly
Tubing Diameter .170 in
Tubing Length 29 ft

Pump placement from TOC 29 ft

Well Information:

Well ID SGWC-13
Well diameter 2 in
Well Total Depth 37.5 ft
Screen Length 10 ft
Depth to Water 4 ft

Pumping Information:

Final Pumping Rate 200 mL/min
Total System Volume 0.6144392 L
Calculated Sample Rate 300 sec
Stabilization Drawdown 18 in
Total Volume Pumped 5 L

Low-Flow Sampling Stabilization Summary

	Time	Elapsed	Temp C	pH	SpCond μ S/cm	Turb NTU	DTW ft	RDO mg/L	ORP mV
Stabilization			+/- 0.5	+/- 0.1	+/- 5%	+/- 10		+/- 0.2	+/- 10
Last 5	11:40:18	600.11	20.90	6.06	280.79	3.40	5.45	0.47	60.94
Last 5	11:45:18	900.03	20.84	6.06	278.04	1.79	5.50	0.21	62.30
Last 5	11:50:18	1200.03	21.06	6.05	279.40	2.87	5.50	0.15	64.32
Last 5	11:55:18	1500.03	21.13	6.05	279.54	2.26	5.50	0.14	65.51
Last 5									
Variance 0			-0.06	0.01	-2.75			-0.27	1.36
Variance 1			0.23	-0.01	1.36			-0.05	2.03
Variance 2			0.07	0.00	0.14			-0.01	1.19

Notes

Sampled SGWC-13 at 11:55 on 6/27/17

Grab Samples

Product Name: Low-Flow System

Date: 2017-06-27 13:59:08

Project Information:

Operator Name D. Herrera
Company Name Golder Associates
Project Name 1662350
Site Name Plant Scherer
Latitude 0° 0' 0"
Longitude 0° 0' 0"
Sonde SN 440279
Turbidity Make/Model LaMotte

Pump Information:

Pump Model/Type QED Well Wizard
Tubing Type poly
Tubing Diameter .170 in
Tubing Length 30.24 ft

Pump placement from TOC 30.24 ft

Well Information:

Well ID SGWC-14
Well diameter 2 in
Well Total Depth 38.5 ft
Screen Length 10 ft
Depth to Water 10.73 ft

Pumping Information:

Final Pumping Rate 200 mL/min
Total System Volume 0.6199739 L
Calculated Sample Rate 300 sec
Stabilization Drawdown 0.84 in
Total Volume Pumped 7.5 L

Low-Flow Sampling Stabilization Summary

	Time	Elapsed	Temp C	pH	SpCond μ S/cm	Turb NTU	DTW ft	RDO mg/L	ORP mV
Stabilization			+/- 0.5	+/- 0.1	+/- 5%	+/- 10		+/- 0.2	+/- 10
Last 5	13:34:13	600.07	20.53	5.94	530.99	3.08	10.76	0.71	114.46
Last 5	13:39:13	900.06	20.31	5.92	525.81	3.52	10.80	0.35	115.52
Last 5	13:44:13	1200.06	20.44	5.90	528.35	3.48	10.80	0.23	115.55
Last 5	13:49:13	1500.06	20.37	5.87	531.32	4.64	10.80	0.20	115.88
Last 5	13:54:13	1800.07	20.48	5.86	529.14	4.88	10.80	0.18	116.68
Variance 0			0.13	-0.03	2.54			-0.12	0.03
Variance 1			-0.07	-0.02	2.97			-0.03	0.33
Variance 2			0.11	-0.02	-2.18			-0.02	0.80

Notes

Sampled SGWC-14 at 13:55 on 6/27/17

Grab Samples

Product Name: Low-Flow System

Date: 2017-06-27 14:59:11

Project Information:

Operator Name D.Thomas
Company Name Golder Associates
Project Name 1662350
Site Name Plant Scherer
Latitude 0° 0' 0"
Longitude 0° 0' 0"
Sonde SN 501336
Turbidity Make/Model LaMotte

Pump Information:

Pump Model/Type QED Well Wizard
Tubing Type poly
Tubing Diameter .170 in
Tubing Length 39.65 ft

Pump placement from TOC 39.65 ft

Well Information:

Well ID SGWC-15
Well diameter 2 in
Well Total Depth 48.2 ft
Screen Length 10 ft
Depth to Water 28.79 ft

Pumping Information:

Final Pumping Rate 200 mL/min
Total System Volume 0.6619747 L
Calculated Sample Rate 300 sec
Stabilization Drawdown 0.12 in
Total Volume Pumped 3.5 L

Low-Flow Sampling Stabilization Summary

	Time	Elapsed	Temp C	pH	SpCond μ S/cm	Turb NTU	DTW ft	RDO mg/L	ORP mV
Stabilization			+/- 0.5	+/- 0.1	+/- 5%	+/- 10		+/- 10%	+/- 10
Last 5	14:35:36	300.10	20.89	4.67	482.96	1.33	28.89	1.74	148.54
Last 5	14:40:36	600.03	20.83	4.66	492.48	3.92	28.80	1.57	160.80
Last 5	14:45:36	900.03	22.57	4.66	486.42	4.53	28.80	1.45	172.41
Last 5	14:50:36	1200.03	22.80	4.66	484.82	3.43	28.80	1.29	188.88
Last 5	14:55:36	1500.03	23.02	4.66	484.80	2.85	28.80	1.45	207.01
Variance 0			1.74	-0.01	-6.06			-0.12	11.61
Variance 1			0.23	0.00	-1.60			-0.16	16.47
Variance 2			0.21	0.00	-0.01			0.16	18.14

Notes

Began purging SGWC-15 at 1430
Stopped purging SGWC-15 at 1455 and began sampling

Grab Samples

Product Name: Low-Flow System

Date: 2017-06-27 15:19:50

Project Information:

Operator Name D. Herrera
Company Name Golder Associates
Project Name 1662350
Site Name Plant Scherer
Latitude 0° 0' 0"
Longitude 0° 0' 0"
Sonde SN 440279
Turbidity Make/Model LaMotte

Pump Information:

Pump Model/Type QED Well Wizard
Tubing Type poly
Tubing Diameter .170 in
Tubing Length 34.62 ft

Pump placement from TOC 34.62 ft

Well Information:

Well ID SGWC-16
Well diameter 2 in
Well Total Depth 43.3 ft
Screen Length 10 ft
Depth to Water 25.1 ft

Pumping Information:

Final Pumping Rate 200 mL/min
Total System Volume 0.6395237 L
Calculated Sample Rate 300 sec
Stabilization Drawdown 1.8 in
Total Volume Pumped 5 L

Low-Flow Sampling Stabilization Summary

	Time	Elapsed	Temp C	pH	SpCond μ S/cm	Turb NTU	DTW ft	RDO mg/L	ORP mV
Stabilization			+/- 0.5	+/- 0.1	+/- 5%	+/- 10		+/- 0.2	+/- 10
Last 5	14:58:10	300.10	21.52	5.19	99.91	10.19	25.25	3.55	163.19
Last 5	15:03:10	600.03	20.50	5.31	104.95	7.86	25.25	3.24	165.32
Last 5	15:08:10	900.03	20.26	5.28	106.15	6.42	25.25	3.10	174.99
Last 5	15:13:10	1200.03	20.17	5.33	105.71	4.17	25.25	3.18	174.11
Last 5	15:18:10	1500.03	20.28	5.22	105.41	4.27	25.25	2.97	180.96
Variance 0			-0.24	-0.04	1.20			-0.14	9.67
Variance 1			-0.09	0.06	-0.44			0.08	-0.88
Variance 2			0.11	-0.12	-0.30			-0.21	6.85

Notes

Sampled SGWC-16 on 6/27/17 at 15:20

Grab Samples

Product Name: Low-Flow System

Date: 2017-06-27 14:39:42

Project Information:

Operator Name Ben Hodges
Company Name Golder
Project Name Scherer
Site Name Plant Scherer
Latitude 0° 0' 0"
Longitude 0° 0' 0"
Sonde SN 497259
Turbidity Make/Model LaMotte

Pump Information:

Pump Model/Type QED Well Wizard
Tubing Type polyethylene
Tubing Diameter .17 in
Tubing Length 19.24 ft

Pump placement from TOC 19.24 ft

Well Information:

Well ID SGWC-17
Well diameter 2 in
Well Total Depth 27.6 ft
Screen Length 10 ft
Depth to Water 0.52 ft

Pumping Information:

Final Pumping Rate 100 mL/min
Total System Volume 0.5708762 L
Calculated Sample Rate 300 sec
Stabilization Drawdown 3 in
Total Volume Pumped 3 L

Low-Flow Sampling Stabilization Summary

	Time	Elapsed	Temp C	pH	SpCond μ S/cm	Turb NTU	DTW ft	RDO mg/L	ORP mV
Stabilization			+/- 0.5	+/- 0.1	+/- 5%	+/- 10		+/- 10%	+/- 10
Last 5	14:18:01	600.03	25.14	6.33	504.64	11.66	0.76	1.28	-17.28
Last 5	14:23:01	900.03	24.92	6.30	506.27	6.81	0.77	0.59	-6.66
Last 5	14:28:01	1200.03	24.92	6.29	506.64	2.19	0.77	0.39	-0.81
Last 5	14:33:01	1500.03	24.95	6.28	505.23	1.50	0.77	0.33	2.88
Last 5	14:38:01	1800.03	24.82	6.27	504.65	2.23	0.77	0.27	5.30
Variance 0			-0.00	-0.01	0.37			-0.20	5.85
Variance 1			0.02	-0.01	-1.41			-0.06	3.69
Variance 2			-0.13	-0.00	-0.58			-0.05	2.42

Notes

Sampled at 1440

Grab Samples

Product Name: Low-Flow System

Date: 2017-06-28 10:15:31

Project Information:

Operator Name Ben Hodges
Company Name Golder
Project Name Scherer
Site Name Plant Scherer
Latitude 0° 0' 0"
Longitude 0° 0' 0"
Sonde SN 497259
Turbidity Make/Model LaMotte

Pump Information:

Pump Model/Type QED Well Wizard
Tubing Type polyethylene
Tubing Diameter .17 in
Tubing Length 39.20 ft

Pump placement from TOC 39.20 ft

Well Information:

Well ID SGWC-18
Well diameter 2 in
Well Total Depth 47.60 ft
Screen Length 10 ft
Depth to Water 36.55 ft

Pumping Information:

Final Pumping Rate 100 mL/min
Total System Volume 0.6599662 L
Calculated Sample Rate 300 sec
Stabilization Drawdown 1.44 in
Total Volume Pumped 3 L

Low-Flow Sampling Stabilization Summary

	Time	Elapsed	Temp C	pH	SpCond μ S/cm	Turb NTU	DTW ft	RDO mg/L	ORP mV
Stabilization			+/- 0.5	+/- 0.1	+/- 5%	+/- 10		+/- 10%	+/- 10
Last 5	09:54:35	599.96	23.33	4.82	869.92	0.23	36.70	4.80	104.44
Last 5	09:59:35	899.96	23.42	4.78	854.42	0.19	36.69	3.61	103.99
Last 5	10:04:35	1199.96	23.62	4.78	846.80	0.42	36.68	3.14	102.91
Last 5	10:09:35	1499.96	23.97	4.78	845.67	0.40	36.67	2.95	102.72
Last 5	10:14:35	1799.96	24.45	4.78	844.91	0.46	36.67	2.87	102.28
Variance 0			0.20	0.00	-7.62			-0.47	-1.08
Variance 1			0.35	-0.00	-1.13			-0.19	-0.20
Variance 2			0.48	0.01	-0.76			-0.08	-0.44

Notes

Sampled at 1015

Grab Samples

Product Name: Low-Flow System

Date: 2017-06-28 09:07:52

Project Information:

Operator Name Ben Hodges
Company Name Golder
Project Name Scherer
Site Name Plant Scherer
Latitude 0° 0' 0"
Longitude 0° 0' 0"
Sonde SN 497259
Turbidity Make/Model LaMotte

Pump Information:

Pump Model/Type QED Well Wizard
Tubing Type polyethylene
Tubing Diameter .17 in
Tubing Length 29.0 ft

Pump placement from TOC 29.0 ft

Well Information:

Well ID SGWC-19
Well diameter 2 in
Well Total Depth 37.4 ft
Screen Length 10 ft
Depth to Water 16.25 ft

Pumping Information:

Final Pumping Rate 120 mL/min
Total System Volume 0.6144392 L
Calculated Sample Rate 300 sec
Stabilization Drawdown 5.4 in
Total Volume Pumped 3.6 L

Low-Flow Sampling Stabilization Summary

	Time	Elapsed	Temp C	pH	SpCond μ S/cm	Turb NTU	DTW ft	RDO mg/L	ORP mV
Stabilization			+/- 0.5	+/- 0.1	+/- 5%	+/- 10		+/- 10%	+/- 10
Last 5	08:45:51	600.03	20.08	5.53	503.53	0.73	16.70	3.06	99.13
Last 5	08:50:51	900.03	20.03	5.52	504.00	0.80	16.72	2.60	94.31
Last 5	08:55:51	1200.03	20.07	5.51	504.26	0.86	16.71	2.36	91.51
Last 5	09:00:51	1500.03	20.20	5.50	505.16	0.80	16.70	2.28	88.85
Last 5	09:05:51	1800.03	20.29	5.50	504.09	1.02	16.70	2.22	87.06
Variance 0			0.04	-0.01	0.25			-0.24	-2.80
Variance 1			0.14	-0.00	0.90			-0.08	-2.66
Variance 2			0.09	0.00	-1.07			-0.05	-1.78

Notes

Sampled at 0910/FB-3(AP)

Grab Samples

Product Name: Low-Flow System

Date: 2017-06-28 11:06:20

Project Information:

Operator Name D. Herrera
Company Name Golder Associates
Project Name 1662350
Site Name Plant Scherer
Latitude 0° 0' 0"
Longitude 0° 0' 0"
Sonde SN 440279
Turbidity Make/Model LaMotte

Pump Information:

Pump Model/Type QED Well Wizard
Tubing Type poly
Tubing Diameter .170 in
Tubing Length 19.15 ft

Pump placement from TOC 19.15 ft

Well Information:

Well ID SGWC-20
Well diameter 2 in
Well Total Depth 27.90 ft
Screen Length 10 ft
Depth to Water 13.68 ft

Pumping Information:

Final Pumping Rate 200 mL/min
Total System Volume 0.5704746 L
Calculated Sample Rate 300 sec
Stabilization Drawdown 8.04 in
Total Volume Pumped 6 L

Low-Flow Sampling Stabilization Summary

	Time	Elapsed	Temp C	pH	SpCond μ S/cm	Turb NTU	DTW ft	RDO mg/L	ORP mV
Stabilization			+/- 0.5	+/- 0.1	+/- 5%	+/- 10		+/- 0.2	+/- 10
Last 5	10:43:59	600.03	22.71	4.24	542.55	0.24	14.30	1.40	224.62
Last 5	10:48:59	900.03	22.73	4.26	539.85	0.24	14.35	0.87	236.17
Last 5	10:53:59	1200.08	22.62	4.28	542.11	0.20	14.35	0.63	250.74
Last 5	10:58:59	1500.08	22.70	4.27	547.15	0.21	14.35	0.54	268.60
Last 5	11:03:59	1800.08	22.77	4.28	549.85	0.17	14.35	0.46	283.34
Variance 0			-0.10	0.02	2.26			-0.24	14.57
Variance 1			0.08	-0.01	5.04			-0.09	17.86
Variance 2			0.06	0.01	2.70			-0.08	14.74

Notes

Sampled SGWC-20 on 6/28/17 at 11:05

Grab Samples

Product Name: Low-Flow System

Date: 2017-06-28 09:37:06

Project Information:

Operator Name D. Herrera
Company Name Golder Associates
Project Name 1662350
Site Name Plant Scherer
Latitude 0° 0' 0"
Longitude 0° 0' 0"
Sonde SN 440279
Turbidity Make/Model LaMotte

Pump Information:

Pump Model/Type QED Well Wizard
Tubing Type poly
Tubing Diameter .170 in
Tubing Length 19.39 ft

Pump placement from TOC 19.39 ft

Well Information:

Well ID SGWC-21
Well diameter 2 in
Well Total Depth 27.71 ft
Screen Length 10 ft
Depth to Water 1.35 ft

Pumping Information:

Final Pumping Rate 250 mL/min
Total System Volume 0.5715458 L
Calculated Sample Rate 300 sec
Stabilization Drawdown 1.8 in
Total Volume Pumped 7.5 L

Low-Flow Sampling Stabilization Summary

	Time	Elapsed	Temp C	pH	SpCond μ S/cm	Turb NTU	DTW ft	RDO mg/L	ORP mV
Stabilization			+/- 0.5	+/- 0.1	+/- 5%	+/- 10		+/- 0.2	+/- 10
Last 5	09:15:01	600.03	20.95	6.01	419.97	2.90	1.50	0.79	174.97
Last 5	09:20:01	900.03	20.97	6.00	419.10	2.65	1.50	0.47	184.94
Last 5	09:25:01	1200.03	21.02	5.99	409.06	2.58	1.50	0.59	200.19
Last 5	09:30:01	1500.03	21.02	6.00	420.84	2.53	1.50	0.45	202.70
Last 5	09:35:01	1800.03	20.97	6.00	419.18	1.80	1.50	0.54	215.94
Variance 0			0.05	-0.01	-10.04			0.12	15.25
Variance 1			-0.00	0.01	11.79			-0.14	2.51
Variance 2			-0.04	0.00	-1.67			0.08	13.23

Notes

Sampled SGWC-21 on 6/28/17 at 9:35

Grab Samples

Product Name: Low-Flow System

Date: 2017-06-28 09:16:26

Project Information:

Operator Name D.Thomas
Company Name Golder Associates
Project Name 1662350
Site Name Plant Scherer
Latitude 0° 0' 0"
Longitude 0° 0' 0"
Sonde SN 501336
Turbidity Make/Model LaMotte

Pump Information:

Pump Model/Type QED Well Wizard
Tubing Type poly
Tubing Diameter .170 in
Tubing Length 44.20 ft

Pump placement from TOC 44.20 ft

Well Information:

Well ID SGWC-22
Well diameter 2 in
Well Total Depth 52.6 ft
Screen Length 10 ft
Depth to Water 25.9 ft

Pumping Information:

Final Pumping Rate 200 mL/min
Total System Volume 0.6822833 L
Calculated Sample Rate 300 sec
Stabilization Drawdown 13.8 in
Total Volume Pumped 5 L

Low-Flow Sampling Stabilization Summary

	Time	Elapsed	Temp C	pH	SpCond μ S/cm	Turb NTU	DTW ft	RDO mg/L	ORP mV
Stabilization			+/- 0.5	+/- 0.1	+/- 5%	+/- 10		+/- 10%	+/- 10
Last 5	08:54:24	300.10	20.19	5.65	327.29	1.16	26.92	0.66	68.52
Last 5	08:59:24	599.92	19.91	5.62	330.30	0.72	26.95	0.42	70.71
Last 5	09:04:24	899.92	19.85	5.64	327.79	0.69	27.05	0.33	70.48
Last 5	09:09:24	1199.92	19.89	5.66	326.47	0.71	27.05	0.26	69.93
Last 5	09:14:24	1499.92	19.83	5.66	325.17	0.83	27.05	0.21	69.57
Variance 0			-0.06	0.02	-2.51			-0.09	-0.23
Variance 1			0.04	0.02	-1.32			-0.07	-0.55
Variance 2			-0.06	0.01	-1.30			-0.06	-0.36

Notes

Began purging SGWC-22 at 0849
Stopped purging SGWC-22 at 0914 and began sampling

Grab Samples

Product Name: Low-Flow System

Date: 2017-06-28 10:33:09

Project Information:

Operator Name D.Thomas
Company Name Golder Associates
Project Name 1662350
Site Name Plant Scherer
Latitude 0° 0' 0"
Longitude 0° 0' 0"
Sonde SN 501336
Turbidity Make/Model LaMotte

Pump Information:

Pump Model/Type QED Well Wizard
Tubing Type poly
Tubing Diameter .170 in
Tubing Length 44.25 ft

Pump placement from TOC 44.25 ft

Well Information:

Well ID SGWC-23
Well diameter 2 in
Well Total Depth 52.60 ft
Screen Length 10 ft
Depth to Water 31.00 ft

Pumping Information:

Final Pumping Rate 200 mL/min
Total System Volume 0.6825064 L
Calculated Sample Rate 300 sec
Stabilization Drawdown 2.28 in
Total Volume Pumped 5 L

Low-Flow Sampling Stabilization Summary

	Time	Elapsed	Temp C	pH	SpCond μ S/cm	Turb NTU	DTW ft	RDO mg/L	ORP mV
Stabilization			+/- 0.5	+/- 0.1	+/- 5%	+/- 10		+/- 10%	+/- 10
Last 5	10:11:15	300.09	20.64	5.91	351.56	0.16	31.10	1.70	67.89
Last 5	10:16:15	600.03	20.43	5.92	349.04	0.14	31.15	1.43	65.29
Last 5	10:21:15	900.03	20.38	5.91	353.68	0.09	31.17	1.39	65.23
Last 5	10:26:15	1200.03	20.39	5.90	370.09	0.17	31.17	1.55	67.06
Last 5	10:31:15	1499.97	20.38	5.90	375.50	0.03	31.19	1.71	67.82
Variance 0			-0.05	-0.01	4.64			-0.04	-0.06
Variance 1			0.01	-0.01	16.41			0.16	1.83
Variance 2			-0.00	0.00	5.41			0.16	0.75

Notes

Began purging SGWC-23 at 1006
Stopped purging SGWC-23 at 1031 and began sampling

Grab Samples

Product Name: Low-Flow System

Date: 2017-06-26 14:57:55

Project Information:

Operator Name D.Thomas
Company Name Golder Associates
Project Name 1662350
Site Name Plant Scherer
Latitude 0° 0' 0"
Longitude 0° 0' 0"
Sonde SN 501336
Turbidity Make/Model LaMotte

Pump Information:

Pump Model/Type QED Well Wizard
Tubing Type poly
Tubing Diameter .170 in
Tubing Length 34.80 ft

Pump placement from TOC 34.80 ft

Well Information:

Well ID SGWA-24
Well diameter 2 in
Well Total Depth 42.9 ft
Screen Length 10 ft
Depth to Water 15.15 ft

Pumping Information:

Final Pumping Rate 100 mL/min
Total System Volume 0.6403272 L
Calculated Sample Rate 300 sec
Stabilization Drawdown 1.92 in
Total Volume Pumped 7.5 L

Low-Flow Sampling Stabilization Summary

	Time	Elapsed	Temp C	pH	SpCond μ S/cm	Turb NTU	DTW ft	RDO mg/L	ORP mV
Stabilization			+/- 0.5	+/- 0.1	+/- 5%	+/- 10		+/- 10%	+/- 10
Last 5	14:35:05	2699.93	21.92	6.34	133.85	5.49	15.31	2.13	79.74
Last 5	14:40:05	2999.93	21.70	6.34	134.57	5.25	15.31	2.05	80.03
Last 5	14:45:05	3299.93	21.84	6.34	134.46	4.76	15.31	2.07	79.80
Last 5	14:50:05	3599.94	21.90	6.34	134.43	4.54	15.31	2.03	79.85
Last 5	14:55:05	3899.93	21.77	6.35	134.44	4.37	15.31	2.04	79.59
Variance 0			0.15	-0.00	-0.11			0.02	-0.23
Variance 1			0.06	0.00	-0.03			-0.03	0.05
Variance 2			-0.13	0.01	0.01			0.01	-0.26

Notes

Began purging SGWA-24 at 1350
Stopped purging at 1455 and began sampling

Grab Samples

Product Name: Low-Flow System

Date: 2017-06-27 09:17:48

Project Information:

Operator Name Ben Hodges
Company Name Golder
Project Name Scherer
Site Name Plant Scherer
Latitude 0° 0' 0"
Longitude 0° 0' 0"
Sonde SN 497259
Turbidity Make/Model LaMotte

Pump Information:

Pump Model/Type QED Well Wizard
Tubing Type polyethylene
Tubing Diameter .17 in
Tubing Length 39.75 ft

Pump placement from TOC 39.75 ft

Well Information:

Well ID SGWA-25
Well diameter 2 in
Well Total Depth 48.0 ft
Screen Length 10 ft
Depth to Water 29.42 ft

Pumping Information:

Final Pumping Rate 150 mL/min
Total System Volume 0.6624211 L
Calculated Sample Rate 300 sec
Stabilization Drawdown 1.68 in
Total Volume Pumped 4.5 L

Low-Flow Sampling Stabilization Summary

	Time	Elapsed	Temp C	pH	SpCond μ S/cm	Turb NTU	DTW ft	RDO mg/L	ORP mV
Stabilization			+/- 0.5	+/- 0.1	+/- 5%	+/- 10		+/- 10%	+/- 10
Last 5	08:55:56	599.91	19.00	6.11	123.57	4.38	29.56	1.31	59.26
Last 5	09:00:56	899.90	18.91	6.08	122.52	3.21	29.56	0.54	57.16
Last 5	09:05:56	1199.91	18.92	6.07	122.60	2.07	29.56	0.32	54.92
Last 5	09:10:56	1499.90	18.98	6.07	123.49	2.88	29.56	0.25	53.20
Last 5	09:15:56	1799.90	19.00	6.08	124.32	0.88	29.56	0.23	51.56
Variance 0			0.01	-0.01	0.07			-0.23	-2.24
Variance 1			0.06	-0.00	0.89			-0.07	-1.72
Variance 2			0.03	0.01	0.83			-0.02	-1.64

Notes

Sampled at 0920/FB-2(AP)

Grab Samples



APPENDIX A

**ANALYTICAL RESULTS & FIELD DATA FORMS
(OCTOBER 2017)**

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

TestAmerica Laboratories, Inc.

TestAmerica Pensacola

3355 McLemore Drive

Pensacola, FL 32514

Tel: (850)474-1001

TestAmerica Job ID: 400-144551-1

TestAmerica SDG: Plant Scherer Ash Pond App III

Client Project/Site: CCR - Plant Scherer

For:

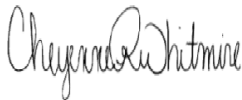
Southern Company

241 Ralph McGill Blvd SE

B10185

Atlanta, Georgia 30308

Attn: Joju Abraham



Authorized for release by:

10/27/2017 11:32:27 AM

Cheyenne Whitmire, Project Manager II

(850)471-6222

cheyenne.whitmire@testamericainc.com

LINKS

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www.testamericainc.com

The test results in this report meet all 2003 NELAC and 2009 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.

1

2

3

4

5

6

7

8

9

10

11

12

13

14



Table of Contents

Cover Page	1
Table of Contents	2
Case Narrative	3
Detection Summary	4
Method Summary	10
Sample Summary	11
Client Sample Results	12
Definitions	46
Chronicle	47
QC Association	56
QC Sample Results	61
Chain of Custody	68
Receipt Checklists	73
Certification Summary	74

Case Narrative

Client: Southern Company
Project/Site: CCR - Plant Scherer

TestAmerica Job ID: 400-144551-1
SDG: Plant Scherer Ash Pond App III

Job ID: 400-144551-1

Laboratory: TestAmerica Pensacola

Narrative

Job Narrative 400-144551-1

HPLC/IC

Method(s) 300.0: The following sample was diluted due to high conductivity: SGWC-18 (400-144551-34). Elevated reporting limits (RL) are provided.

Method(s) 300.0: The following samples were diluted to bring the concentration of target analytes within the calibration range: SGWC-14 (400-144551-13), SGWC-13 (400-144551-15), SGWC-23 (400-144551-20), SGWC-17 (400-144551-21), SGWC-15 (400-144551-23), SGWC-19 (400-144551-25), SGWC-20 (400-144551-26), SGWC-21 (400-144551-27), SGWC-22 (400-144551-28), FD-3(AP) (400-144551-29), SGWC-8 (400-144551-30), SGWC-9 (400-144551-31) and SGWC-18 (400-144551-34). Elevated reporting limits (RLs) are provided.

Method(s) 300.0: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for analytical batch 372924 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.

Metals

Method(s) 6020: The following samples were diluted to bring the concentration of target analytes within the calibration range: SGWC-19 (400-144551-25), SGWC-20 (400-144551-26) and SGWC-18 (400-144551-34).. Elevated reporting limits (RLs) are provided.



Detection Summary

Client: Southern Company
Project/Site: CCR - Plant Scherer

TestAmerica Job ID: 400-144551-1
SDG: Plant Scherer Ash Pond App III

Client Sample ID: SGWA-1

Lab Sample ID: 400-144551-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chloride	1.8		1.0	0.89	mg/L	1		300.0	Total/NA
Sulfate	0.76	J	1.0	0.70	mg/L	1		300.0	Total/NA
Calcium	2.3		0.25	0.13	mg/L	5		6020	Total Recoverable
Total Dissolved Solids	36		5.0	3.4	mg/L	1		SM 2540C	Total/NA

Client Sample ID: SGWA-2

Lab Sample ID: 400-144551-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chloride	1.3		1.0	0.89	mg/L	1		300.0	Total/NA
Calcium	11		0.25	0.13	mg/L	5		6020	Total Recoverable
Total Dissolved Solids	100		5.0	3.4	mg/L	1		SM 2540C	Total/NA

Client Sample ID: SGWA-24

Lab Sample ID: 400-144551-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chloride	1.8		1.0	0.89	mg/L	1		300.0	Total/NA
Calcium	14		0.25	0.13	mg/L	5		6020	Total Recoverable
Total Dissolved Solids	110		5.0	3.4	mg/L	1		SM 2540C	Total/NA

Client Sample ID: EB-1(AP)

Lab Sample ID: 400-144551-4

No Detections.

Client Sample ID: FD-1(AP)

Lab Sample ID: 400-144551-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chloride	1.3		1.0	0.89	mg/L	1		300.0	Total/NA
Calcium	11		0.25	0.13	mg/L	5		6020	Total Recoverable
Total Dissolved Solids	130		5.0	3.4	mg/L	1		SM 2540C	Total/NA

Client Sample ID: FB-1(AP)

Lab Sample ID: 400-144551-6

No Detections.

Client Sample ID: SGWA-4

Lab Sample ID: 400-144551-7

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chloride	1.1		1.0	0.89	mg/L	1		300.0	Total/NA
Sulfate	0.93	J	1.0	0.70	mg/L	1		300.0	Total/NA
Calcium	19		0.25	0.13	mg/L	5		6020	Total Recoverable
Total Dissolved Solids	120		5.0	3.4	mg/L	1		SM 2540C	Total/NA

Client Sample ID: SGWA-3

Lab Sample ID: 400-144551-8

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chloride	2.4		1.0	0.89	mg/L	1		300.0	Total/NA
Sulfate	0.98	J	1.0	0.70	mg/L	1		300.0	Total/NA

This Detection Summary does not include radiochemical test results.

TestAmerica Pensacola

Detection Summary

Client: Southern Company
Project/Site: CCR - Plant Scherer

TestAmerica Job ID: 400-144551-1
SDG: Plant Scherer Ash Pond App III

Client Sample ID: SGWA-3 (Continued)

Lab Sample ID: 400-144551-8

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Calcium	5.5		0.25	0.13	mg/L	5		6020	Total Recoverable
Total Dissolved Solids	42		5.0	3.4	mg/L	1		SM 2540C	Total/NA

Client Sample ID: SGWA-5

Lab Sample ID: 400-144551-9

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chloride	1.6		1.0	0.89	mg/L	1		300.0	Total/NA
Calcium	1.6		0.25	0.13	mg/L	5		6020	Total Recoverable
Total Dissolved Solids	64		5.0	3.4	mg/L	1		SM 2540C	Total/NA

Client Sample ID: EB-2(AP)

Lab Sample ID: 400-144551-10

No Detections.

Client Sample ID: FD-2(AP)

Lab Sample ID: 400-144551-11

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chloride	8.8		1.0	0.89	mg/L	1		300.0	Total/NA
Sulfate	32		1.0	0.70	mg/L	1		300.0	Total/NA
Calcium	23		0.25	0.13	mg/L	5		6020	Total Recoverable
Total Dissolved Solids	180		5.0	3.4	mg/L	1		SM 2540C	Total/NA

Client Sample ID: FB-2(AP)

Lab Sample ID: 400-144551-12

No Detections.

Client Sample ID: SGWC-14

Lab Sample ID: 400-144551-13

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chloride	10		1.0	0.89	mg/L	1		300.0	Total/NA
Sulfate	190		5.0	3.5	mg/L	5		300.0	Total/NA
Boron	1.5		0.050	0.021	mg/L	5		6020	Total Recoverable
Calcium	44		0.25	0.13	mg/L	5		6020	Total Recoverable
Total Dissolved Solids	340		5.0	3.4	mg/L	1		SM 2540C	Total/NA

Client Sample ID: SGWC-6

Lab Sample ID: 400-144551-14

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chloride	1.6		1.0	0.89	mg/L	1		300.0	Total/NA
Fluoride	0.089	J	0.20	0.082	mg/L	1		300.0	Total/NA
Calcium	6.5		0.25	0.13	mg/L	5		6020	Total Recoverable
Total Dissolved Solids	82		5.0	3.4	mg/L	1		SM 2540C	Total/NA

Client Sample ID: SGWC-13

Lab Sample ID: 400-144551-15

This Detection Summary does not include radiochemical test results.

TestAmerica Pensacola

Detection Summary

Client: Southern Company
Project/Site: CCR - Plant Scherer

TestAmerica Job ID: 400-144551-1
SDG: Plant Scherer Ash Pond App III

Client Sample ID: SGWC-13 (Continued)

Lab Sample ID: 400-144551-15

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chloride	5.7		1.0	0.89	mg/L	1		300.0	Total/NA
Sulfate	72		5.0	3.5	mg/L	5		300.0	Total/NA
Boron	0.49		0.050	0.021	mg/L	5		6020	Total Recoverable
Calcium	16		0.25	0.13	mg/L	5		6020	Total Recoverable
Total Dissolved Solids	170		5.0	3.4	mg/L	1		SM 2540C	Total/NA

Client Sample ID: SGWC-12

Lab Sample ID: 400-144551-16

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chloride	8.8		1.0	0.89	mg/L	1		300.0	Total/NA
Sulfate	33		1.0	0.70	mg/L	1		300.0	Total/NA
Calcium	23		0.25	0.13	mg/L	5		6020	Total Recoverable
Total Dissolved Solids	190		5.0	3.4	mg/L	1		SM 2540C	Total/NA

Client Sample ID: SGWC-11

Lab Sample ID: 400-144551-17

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chloride	7.4		1.0	0.89	mg/L	1		300.0	Total/NA
Sulfate	0.82	J	1.0	0.70	mg/L	1		300.0	Total/NA
Boron	0.31		0.050	0.021	mg/L	5		6020	Total Recoverable
Calcium	2.0		0.25	0.13	mg/L	5		6020	Total Recoverable
Total Dissolved Solids	56		5.0	3.4	mg/L	1		SM 2540C	Total/NA

Client Sample ID: SGWA-25

Lab Sample ID: 400-144551-18

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chloride	1.7		1.0	0.89	mg/L	1		300.0	Total/NA
Calcium	11		0.25	0.13	mg/L	5		6020	Total Recoverable
Total Dissolved Solids	94		5.0	3.4	mg/L	1		SM 2540C	Total/NA

Client Sample ID: SGWC-7

Lab Sample ID: 400-144551-19

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chloride	5.0		1.0	0.89	mg/L	1		300.0	Total/NA
Fluoride	0.21		0.20	0.082	mg/L	1		300.0	Total/NA
Sulfate	15		1.0	0.70	mg/L	1		300.0	Total/NA
Boron	0.026	J	0.050	0.021	mg/L	5		6020	Total Recoverable
Calcium	22		0.25	0.13	mg/L	5		6020	Total Recoverable
Total Dissolved Solids	210		5.0	3.4	mg/L	1		SM 2540C	Total/NA

Client Sample ID: SGWC-23

Lab Sample ID: 400-144551-20

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chloride	9.3		1.0	0.89	mg/L	1		300.0	Total/NA

This Detection Summary does not include radiochemical test results.

TestAmerica Pensacola

Detection Summary

Client: Southern Company
Project/Site: CCR - Plant Scherer

TestAmerica Job ID: 400-144551-1
SDG: Plant Scherer Ash Pond App III

Client Sample ID: SGWC-23 (Continued)

Lab Sample ID: 400-144551-20

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Sulfate	120		5.0	3.5	mg/L	5		300.0	Total/NA
Boron	0.54		0.050	0.021	mg/L	5		6020	Total Recoverable
Calcium	31		0.25	0.13	mg/L	5		6020	Total Recoverable
Total Dissolved Solids	280		5.0	3.4	mg/L	1		SM 2540C	Total/NA

Client Sample ID: SGWC-17

Lab Sample ID: 400-144551-21

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chloride	8.0		1.0	0.89	mg/L	1		300.0	Total/NA
Sulfate	170		5.0	3.5	mg/L	5		300.0	Total/NA
Boron	0.47		0.050	0.021	mg/L	5		6020	Total Recoverable
Calcium	48		0.25	0.13	mg/L	5		6020	Total Recoverable
Total Dissolved Solids	380		5.0	3.4	mg/L	1		SM 2540C	Total/NA

Client Sample ID: SGWC-16

Lab Sample ID: 400-144551-22

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chloride	7.6		1.0	0.89	mg/L	1		300.0	Total/NA
Sulfate	20		1.0	0.70	mg/L	1		300.0	Total/NA
Boron	0.57		0.050	0.021	mg/L	5		6020	Total Recoverable
Calcium	1.1		0.25	0.13	mg/L	5		6020	Total Recoverable
Total Dissolved Solids	68		5.0	3.4	mg/L	1		SM 2540C	Total/NA

Client Sample ID: SGWC-15

Lab Sample ID: 400-144551-23

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chloride	9.2		1.0	0.89	mg/L	1		300.0	Total/NA
Fluoride	0.13	J	0.20	0.082	mg/L	1		300.0	Total/NA
Sulfate	190		5.0	3.5	mg/L	5		300.0	Total/NA
Boron	1.6		0.050	0.021	mg/L	5		6020	Total Recoverable
Calcium	17		0.25	0.13	mg/L	5		6020	Total Recoverable
Total Dissolved Solids	330		5.0	3.4	mg/L	1		SM 2540C	Total/NA

Client Sample ID: FB-3(AP)

Lab Sample ID: 400-144551-24

No Detections.

Client Sample ID: SGWC-19

Lab Sample ID: 400-144551-25

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chloride	7.4		1.0	0.89	mg/L	1		300.0	Total/NA
Sulfate	210		5.0	3.5	mg/L	5		300.0	Total/NA
Boron - DL	1.9		0.25	0.11	mg/L	25		6020	Total Recoverable

This Detection Summary does not include radiochemical test results.

TestAmerica Pensacola

Detection Summary

Client: Southern Company
Project/Site: CCR - Plant Scherer

TestAmerica Job ID: 400-144551-1
SDG: Plant Scherer Ash Pond App III

Client Sample ID: SGWC-19 (Continued)

Lab Sample ID: 400-144551-25

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Calcium - DL	39		1.3	0.63	mg/L	25		6020	Total
Total Dissolved Solids	370		5.0	3.4	mg/L	1		SM 2540C	Recoverable Total/NA

Client Sample ID: SGWC-20

Lab Sample ID: 400-144551-26

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chloride	11		1.0	0.89	mg/L	1		300.0	Total/NA
Fluoride	0.18	J	0.20	0.082	mg/L	1		300.0	Total/NA
Sulfate	210		5.0	3.5	mg/L	5		300.0	Total/NA
Boron - DL	2.6		0.25	0.11	mg/L	25		6020	Total
Calcium - DL	17		1.3	0.63	mg/L	25		6020	Recoverable Total
Total Dissolved Solids	350		5.0	3.4	mg/L	1		SM 2540C	Recoverable Total/NA

Client Sample ID: SGWC-21

Lab Sample ID: 400-144551-27

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chloride	8.1		1.0	0.89	mg/L	1		300.0	Total/NA
Sulfate	76		5.0	3.5	mg/L	5		300.0	Total/NA
Boron	1.4		0.050	0.021	mg/L	5		6020	Total
Calcium	31		0.25	0.13	mg/L	5		6020	Recoverable Total
Total Dissolved Solids	290		5.0	3.4	mg/L	1		SM 2540C	Recoverable Total/NA

Client Sample ID: SGWC-22

Lab Sample ID: 400-144551-28

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chloride	9.7		1.0	0.89	mg/L	1		300.0	Total/NA
Sulfate	87		5.0	3.5	mg/L	5		300.0	Total/NA
Boron	0.40		0.050	0.021	mg/L	5		6020	Total
Calcium	27		0.25	0.13	mg/L	5		6020	Recoverable Total
Total Dissolved Solids	230		5.0	3.4	mg/L	1		SM 2540C	Recoverable Total/NA

Client Sample ID: FD-3(AP)

Lab Sample ID: 400-144551-29

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chloride	9.8		1.0	0.89	mg/L	1		300.0	Total/NA
Sulfate	88		5.0	3.5	mg/L	5		300.0	Total/NA
Boron	0.41		0.050	0.021	mg/L	5		6020	Total
Calcium	28		0.25	0.13	mg/L	5		6020	Recoverable Total
Total Dissolved Solids	210		5.0	3.4	mg/L	1		SM 2540C	Recoverable Total/NA

Client Sample ID: SGWC-8

Lab Sample ID: 400-144551-30

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chloride	11		1.0	0.89	mg/L	1		300.0	Total/NA

This Detection Summary does not include radiochemical test results.

TestAmerica Pensacola

Detection Summary

Client: Southern Company
Project/Site: CCR - Plant Scherer

TestAmerica Job ID: 400-144551-1
SDG: Plant Scherer Ash Pond App III

Client Sample ID: SGWC-8 (Continued)

Lab Sample ID: 400-144551-30

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Fluoride	0.47		0.20	0.082	mg/L	1		300.0	Total/NA
Sulfate	74		5.0	3.5	mg/L	5		300.0	Total/NA
Boron	0.075		0.050	0.021	mg/L	5		6020	Total Recoverable
Calcium	51		0.25	0.13	mg/L	5		6020	Total Recoverable
Total Dissolved Solids	400		5.0	3.4	mg/L	1		SM 2540C	Total/NA

Client Sample ID: SGWC-9

Lab Sample ID: 400-144551-31

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chloride	11		1.0	0.89	mg/L	1		300.0	Total/NA
Sulfate	310		10	7.0	mg/L	10		300.0	Total/NA
Boron	1.8		0.050	0.021	mg/L	5		6020	Total Recoverable
Calcium	55		0.25	0.13	mg/L	5		6020	Total Recoverable
Total Dissolved Solids	560		5.0	3.4	mg/L	1		SM 2540C	Total/NA

Client Sample ID: EB-3(AP)

Lab Sample ID: 400-144551-32

No Detections.

Client Sample ID: SGWC-10

Lab Sample ID: 400-144551-33

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chloride	8.5		1.0	0.89	mg/L	1		300.0	Total/NA
Sulfate	1.3		1.0	0.70	mg/L	1		300.0	Total/NA
Boron	0.049	J	0.050	0.021	mg/L	5		6020	Total Recoverable
Calcium	1.2		0.25	0.13	mg/L	5		6020	Total Recoverable
Total Dissolved Solids	46		5.0	3.4	mg/L	1		SM 2540C	Total/NA

Client Sample ID: SGWC-18

Lab Sample ID: 400-144551-34

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chloride	7.4		5.0	4.5	mg/L	5		300.0	Total/NA
Sulfate	430		25	18	mg/L	25		300.0	Total/NA
Boron - DL	3.9		0.25	0.11	mg/L	25		6020	Total Recoverable
Calcium - DL	43		1.3	0.63	mg/L	25		6020	Total Recoverable
Total Dissolved Solids	640		5.0	3.4	mg/L	1		SM 2540C	Total/NA

This Detection Summary does not include radiochemical test results.

TestAmerica Pensacola

Method Summary

Client: Southern Company
Project/Site: CCR - Plant Scherer

TestAmerica Job ID: 400-144551-1
SDG: Plant Scherer Ash Pond App III

Method	Method Description	Protocol	Laboratory
300.0	Anions, Ion Chromatography	MCAWW	TAL PEN
6020	Metals (ICP/MS)	SW846	TAL PEN
SM 2540C	Solids, Total Dissolved (TDS)	SM	TAL PEN

Protocol References:

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:

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



Sample Summary

Client: Southern Company
Project/Site: CCR - Plant Scherer

TestAmerica Job ID: 400-144551-1
SDG: Plant Scherer Ash Pond App III

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
400-144551-1	SGWA-1	Water	10/10/17 16:00	10/12/17 08:31
400-144551-2	SGWA-2	Water	10/10/17 13:30	10/12/17 08:31
400-144551-3	SGWA-24	Water	10/10/17 10:30	10/12/17 08:31
400-144551-4	EB-1(AP)	Water	10/10/17 16:25	10/12/17 08:31
400-144551-5	FD-1(AP)	Water	10/10/17 00:00	10/12/17 08:31
400-144551-6	FB-1(AP)	Water	10/10/17 10:20	10/12/17 08:31
400-144551-7	SGWA-4	Water	10/11/17 14:10	10/13/17 08:31
400-144551-8	SGWA-3	Water	10/11/17 13:10	10/13/17 08:31
400-144551-9	SGWA-5	Water	10/11/17 10:50	10/13/17 08:31
400-144551-10	EB-2(AP)	Water	10/11/17 16:30	10/13/17 08:31
400-144551-11	FD-2(AP)	Water	10/11/17 00:00	10/13/17 08:31
400-144551-12	FB-2(AP)	Water	10/11/17 11:10	10/13/17 08:31
400-144551-13	SGWC-14	Water	10/11/17 15:50	10/13/17 08:31
400-144551-14	SGWC-6	Water	10/11/17 15:10	10/13/17 08:31
400-144551-15	SGWC-13	Water	10/11/17 14:25	10/13/17 08:31
400-144551-16	SGWC-12	Water	10/11/17 13:15	10/13/17 08:31
400-144551-17	SGWC-11	Water	10/11/17 11:30	10/13/17 08:31
400-144551-18	SGWA-25	Water	10/11/17 09:50	10/13/17 08:31
400-144551-19	SGWC-7	Water	10/11/17 16:12	10/13/17 08:31
400-144551-20	SGWC-23	Water	10/12/17 14:20	10/14/17 09:09
400-144551-21	SGWC-17	Water	10/12/17 13:00	10/14/17 09:09
400-144551-22	SGWC-16	Water	10/12/17 10:00	10/14/17 09:09
400-144551-23	SGWC-15	Water	10/12/17 08:55	10/14/17 09:09
400-144551-24	FB-3(AP)	Water	10/12/17 08:45	10/14/17 09:09
400-144551-25	SGWC-19	Water	10/12/17 14:53	10/14/17 09:09
400-144551-26	SGWC-20	Water	10/12/17 13:20	10/14/17 09:09
400-144551-27	SGWC-21	Water	10/12/17 10:48	10/14/17 09:09
400-144551-28	SGWC-22	Water	10/12/17 09:07	10/14/17 09:09
400-144551-29	FD-3(AP)	Water	10/12/17 00:00	10/14/17 09:09
400-144551-30	SGWC-8	Water	10/12/17 10:35	10/14/17 09:09
400-144551-31	SGWC-9	Water	10/12/17 14:10	10/14/17 09:09
400-144551-32	EB-3(AP)	Water	10/12/17 14:45	10/14/17 09:09
400-144551-33	SGWC-10	Water	10/12/17 11:25	10/14/17 09:09
400-144551-34	SGWC-18	Water	10/12/17 15:50	10/14/17 09:09

Client Sample Results

Client: Southern Company
 Project/Site: CCR - Plant Scherer

TestAmerica Job ID: 400-144551-1
 SDG: Plant Scherer Ash Pond App III

Client Sample ID: SGWA-1
Date Collected: 10/10/17 16:00
Date Received: 10/12/17 08:31

Lab Sample ID: 400-144551-1
Matrix: Water

Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	1.8		1.0	0.89	mg/L			10/21/17 21:24	1
Fluoride	<0.082		0.20	0.082	mg/L			10/21/17 21:24	1
Sulfate	0.76	J	1.0	0.70	mg/L			10/21/17 21:24	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Boron	<0.021		0.050	0.021	mg/L		10/16/17 12:49	10/18/17 22:57	5
Calcium	2.3		0.25	0.13	mg/L		10/16/17 12:49	10/18/17 22:57	5

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	36		5.0	3.4	mg/L			10/16/17 13:07	1



Client Sample Results

Client: Southern Company
 Project/Site: CCR - Plant Scherer

TestAmerica Job ID: 400-144551-1
 SDG: Plant Scherer Ash Pond App III

Client Sample ID: SGWA-2
Date Collected: 10/10/17 13:30
Date Received: 10/12/17 08:31

Lab Sample ID: 400-144551-2
Matrix: Water

Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	1.3		1.0	0.89	mg/L			10/21/17 21:47	1
Fluoride	<0.082		0.20	0.082	mg/L			10/21/17 21:47	1
Sulfate	<0.70		1.0	0.70	mg/L			10/21/17 21:47	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Boron	<0.021		0.050	0.021	mg/L		10/16/17 12:49	10/18/17 23:02	5
Calcium	11		0.25	0.13	mg/L		10/16/17 12:49	10/18/17 23:02	5

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	100		5.0	3.4	mg/L			10/16/17 13:07	1

Client Sample Results

Client: Southern Company
 Project/Site: CCR - Plant Scherer

TestAmerica Job ID: 400-144551-1
 SDG: Plant Scherer Ash Pond App III

Client Sample ID: SGWA-24

Date Collected: 10/10/17 10:30

Date Received: 10/12/17 08:31

Lab Sample ID: 400-144551-3

Matrix: Water

Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	1.8		1.0	0.89	mg/L			10/21/17 22:33	1
Fluoride	<0.082		0.20	0.082	mg/L			10/21/17 22:33	1
Sulfate	<0.70		1.0	0.70	mg/L			10/21/17 22:33	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Boron	<0.021		0.050	0.021	mg/L		10/16/17 12:49	10/18/17 23:06	5
Calcium	14		0.25	0.13	mg/L		10/16/17 12:49	10/18/17 23:06	5

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	110		5.0	3.4	mg/L			10/16/17 16:03	1

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

Client Sample Results

Client: Southern Company
 Project/Site: CCR - Plant Scherer

TestAmerica Job ID: 400-144551-1
 SDG: Plant Scherer Ash Pond App III

Client Sample ID: EB-1(AP)

Date Collected: 10/10/17 16:25

Date Received: 10/12/17 08:31

Lab Sample ID: 400-144551-4

Matrix: Water

Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<0.89		1.0	0.89	mg/L			10/21/17 22:56	1
Fluoride	<0.082		0.20	0.082	mg/L			10/21/17 22:56	1
Sulfate	<0.70		1.0	0.70	mg/L			10/21/17 22:56	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Boron	<0.021		0.050	0.021	mg/L		10/16/17 12:49	10/18/17 23:11	5
Calcium	<0.13		0.25	0.13	mg/L		10/16/17 12:49	10/18/17 23:11	5

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	<3.4		5.0	3.4	mg/L			10/16/17 16:03	1

Client Sample Results

Client: Southern Company
 Project/Site: CCR - Plant Scherer

TestAmerica Job ID: 400-144551-1
 SDG: Plant Scherer Ash Pond App III

Client Sample ID: FD-1(AP)

Date Collected: 10/10/17 00:00

Date Received: 10/12/17 08:31

Lab Sample ID: 400-144551-5

Matrix: Water

Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	1.3		1.0	0.89	mg/L			10/21/17 23:18	1
Fluoride	<0.082		0.20	0.082	mg/L			10/21/17 23:18	1
Sulfate	<0.70		1.0	0.70	mg/L			10/21/17 23:18	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Boron	<0.021		0.050	0.021	mg/L		10/16/17 12:49	10/18/17 23:15	5
Calcium	11		0.25	0.13	mg/L		10/16/17 12:49	10/18/17 23:15	5

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	130		5.0	3.4	mg/L			10/14/17 14:50	1

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

Client Sample Results

Client: Southern Company
 Project/Site: CCR - Plant Scherer

TestAmerica Job ID: 400-144551-1
 SDG: Plant Scherer Ash Pond App III

Client Sample ID: FB-1(AP)

Date Collected: 10/10/17 10:20

Date Received: 10/12/17 08:31

Lab Sample ID: 400-144551-6

Matrix: Water

Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<0.89		1.0	0.89	mg/L			10/22/17 00:27	1
Fluoride	<0.082		0.20	0.082	mg/L			10/22/17 00:27	1
Sulfate	<0.70		1.0	0.70	mg/L			10/22/17 00:27	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Boron	<0.021		0.050	0.021	mg/L		10/16/17 12:49	10/18/17 23:20	5
Calcium	<0.13		0.25	0.13	mg/L		10/16/17 12:49	10/18/17 23:20	5

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	<3.4		5.0	3.4	mg/L			10/16/17 16:03	1

Client Sample Results

Client: Southern Company
 Project/Site: CCR - Plant Scherer

TestAmerica Job ID: 400-144551-1
 SDG: Plant Scherer Ash Pond App III

Client Sample ID: SGWA-4
Date Collected: 10/11/17 14:10
Date Received: 10/13/17 08:31

Lab Sample ID: 400-144551-7
Matrix: Water

Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	1.1		1.0	0.89	mg/L			10/22/17 00:50	1
Fluoride	<0.082		0.20	0.082	mg/L			10/22/17 00:50	1
Sulfate	0.93	J	1.0	0.70	mg/L			10/22/17 00:50	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Boron	<0.021		0.050	0.021	mg/L		10/16/17 13:36	10/18/17 23:42	5
Calcium	19		0.25	0.13	mg/L		10/16/17 13:36	10/18/17 23:42	5

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	120		5.0	3.4	mg/L			10/18/17 13:49	1

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

Client Sample Results

Client: Southern Company
 Project/Site: CCR - Plant Scherer

TestAmerica Job ID: 400-144551-1
 SDG: Plant Scherer Ash Pond App III

Client Sample ID: SGWA-3

Date Collected: 10/11/17 13:10

Date Received: 10/13/17 08:31

Lab Sample ID: 400-144551-8

Matrix: Water

Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	2.4		1.0	0.89	mg/L			10/22/17 01:13	1
Fluoride	<0.082		0.20	0.082	mg/L			10/22/17 01:13	1
Sulfate	0.98	J	1.0	0.70	mg/L			10/22/17 01:13	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Boron	<0.021		0.050	0.021	mg/L		10/16/17 13:36	10/19/17 00:27	5
Calcium	5.5		0.25	0.13	mg/L		10/16/17 13:36	10/19/17 00:27	5

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	42		5.0	3.4	mg/L			10/18/17 13:49	1

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

Client Sample Results

Client: Southern Company
 Project/Site: CCR - Plant Scherer

TestAmerica Job ID: 400-144551-1
 SDG: Plant Scherer Ash Pond App III

Client Sample ID: SGWA-5
Date Collected: 10/11/17 10:50
Date Received: 10/13/17 08:31

Lab Sample ID: 400-144551-9
Matrix: Water

Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	1.6		1.0	0.89	mg/L			10/22/17 01:35	1
Fluoride	<0.082		0.20	0.082	mg/L			10/22/17 01:35	1
Sulfate	<0.70		1.0	0.70	mg/L			10/22/17 01:35	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Boron	<0.021		0.050	0.021	mg/L		10/16/17 13:36	10/19/17 00:32	5
Calcium	1.6		0.25	0.13	mg/L		10/16/17 13:36	10/19/17 00:32	5

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	64		5.0	3.4	mg/L			10/18/17 13:49	1

Client Sample Results

Client: Southern Company
Project/Site: CCR - Plant Scherer

TestAmerica Job ID: 400-144551-1
SDG: Plant Scherer Ash Pond App III

Client Sample ID: EB-2(AP)

Date Collected: 10/11/17 16:30

Date Received: 10/13/17 08:31

Lab Sample ID: 400-144551-10

Matrix: Water

Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<0.89		1.0	0.89	mg/L			10/22/17 01:58	1
Fluoride	<0.082		0.20	0.082	mg/L			10/22/17 01:58	1
Sulfate	<0.70		1.0	0.70	mg/L			10/22/17 01:58	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Boron	<0.021		0.050	0.021	mg/L		10/16/17 13:36	10/19/17 00:36	5
Calcium	<0.13		0.25	0.13	mg/L		10/16/17 13:36	10/19/17 00:36	5

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	<3.4		5.0	3.4	mg/L			10/18/17 13:49	1

Client Sample Results

Client: Southern Company
 Project/Site: CCR - Plant Scherer

TestAmerica Job ID: 400-144551-1
 SDG: Plant Scherer Ash Pond App III

Client Sample ID: FD-2(AP)

Date Collected: 10/11/17 00:00

Date Received: 10/13/17 08:31

Lab Sample ID: 400-144551-11

Matrix: Water

Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	8.8		1.0	0.89	mg/L			10/22/17 02:21	1
Fluoride	<0.082		0.20	0.082	mg/L			10/22/17 02:21	1
Sulfate	32		1.0	0.70	mg/L			10/22/17 02:21	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Boron	<0.021		0.050	0.021	mg/L		10/16/17 13:36	10/19/17 00:41	5
Calcium	23		0.25	0.13	mg/L		10/16/17 13:36	10/19/17 00:41	5

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	180		5.0	3.4	mg/L			10/16/17 16:03	1

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

Client Sample Results

Client: Southern Company
Project/Site: CCR - Plant Scherer

TestAmerica Job ID: 400-144551-1
SDG: Plant Scherer Ash Pond App III

Client Sample ID: FB-2(AP)

Date Collected: 10/11/17 11:10

Date Received: 10/13/17 08:31

Lab Sample ID: 400-144551-12

Matrix: Water

Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<0.89		1.0	0.89	mg/L			10/22/17 04:38	1
Fluoride	<0.082		0.20	0.082	mg/L			10/22/17 04:38	1
Sulfate	<0.70		1.0	0.70	mg/L			10/22/17 04:38	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Boron	<0.021		0.050	0.021	mg/L		10/16/17 13:36	10/19/17 00:45	5
Calcium	<0.13		0.25	0.13	mg/L		10/16/17 13:36	10/19/17 00:45	5

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	<3.4		5.0	3.4	mg/L			10/18/17 13:49	1

Client Sample Results

Client: Southern Company
 Project/Site: CCR - Plant Scherer

TestAmerica Job ID: 400-144551-1
 SDG: Plant Scherer Ash Pond App III

Client Sample ID: SGWC-14

Date Collected: 10/11/17 15:50

Date Received: 10/13/17 08:31

Lab Sample ID: 400-144551-13

Matrix: Water

Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	10		1.0	0.89	mg/L			10/22/17 05:47	1
Fluoride	<0.082		0.20	0.082	mg/L			10/22/17 05:47	1
Sulfate	190		5.0	3.5	mg/L			10/23/17 15:05	5

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Boron	1.5		0.050	0.021	mg/L		10/16/17 13:36	10/19/17 00:50	5
Calcium	44		0.25	0.13	mg/L		10/16/17 13:36	10/19/17 00:50	5

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	340		5.0	3.4	mg/L			10/18/17 13:49	1

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

Client Sample Results

Client: Southern Company
 Project/Site: CCR - Plant Scherer

TestAmerica Job ID: 400-144551-1
 SDG: Plant Scherer Ash Pond App III

Client Sample ID: SGWC-6
Date Collected: 10/11/17 15:10
Date Received: 10/13/17 08:31

Lab Sample ID: 400-144551-14
Matrix: Water

Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	1.6		1.0	0.89	mg/L			10/22/17 06:09	1
Fluoride	0.089	J	0.20	0.082	mg/L			10/22/17 06:09	1
Sulfate	<0.70		1.0	0.70	mg/L			10/22/17 06:09	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Boron	<0.021		0.050	0.021	mg/L		10/16/17 13:36	10/19/17 00:54	5
Calcium	6.5		0.25	0.13	mg/L		10/16/17 13:36	10/19/17 00:54	5

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	82		5.0	3.4	mg/L			10/18/17 13:49	1

Client Sample Results

Client: Southern Company
 Project/Site: CCR - Plant Scherer

TestAmerica Job ID: 400-144551-1
 SDG: Plant Scherer Ash Pond App III

Client Sample ID: SGWC-13

Date Collected: 10/11/17 14:25

Date Received: 10/13/17 08:31

Lab Sample ID: 400-144551-15

Matrix: Water

Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	5.7		1.0	0.89	mg/L			10/22/17 06:32	1
Fluoride	<0.082		0.20	0.082	mg/L			10/22/17 06:32	1
Sulfate	72		5.0	3.5	mg/L			10/23/17 15:28	5

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Boron	0.49		0.050	0.021	mg/L		10/16/17 13:36	10/19/17 01:21	5
Calcium	16		0.25	0.13	mg/L		10/16/17 13:36	10/19/17 01:21	5

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	170		5.0	3.4	mg/L			10/18/17 13:49	1

- 1
- 2
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- 12
- 13
- 14

Client Sample Results

Client: Southern Company
 Project/Site: CCR - Plant Scherer

TestAmerica Job ID: 400-144551-1
 SDG: Plant Scherer Ash Pond App III

Client Sample ID: SGWC-12

Date Collected: 10/11/17 13:15

Date Received: 10/13/17 08:31

Lab Sample ID: 400-144551-16

Matrix: Water

Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	8.8		1.0	0.89	mg/L			10/22/17 06:55	1
Fluoride	<0.082		0.20	0.082	mg/L			10/22/17 06:55	1
Sulfate	33		1.0	0.70	mg/L			10/22/17 06:55	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Boron	<0.021		0.050	0.021	mg/L		10/16/17 13:36	10/19/17 01:26	5
Calcium	23		0.25	0.13	mg/L		10/16/17 13:36	10/19/17 01:26	5

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	190		5.0	3.4	mg/L			10/18/17 13:49	1

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

Client Sample Results

Client: Southern Company
 Project/Site: CCR - Plant Scherer

TestAmerica Job ID: 400-144551-1
 SDG: Plant Scherer Ash Pond App III

Client Sample ID: SGWC-11

Date Collected: 10/11/17 11:30

Date Received: 10/13/17 08:31

Lab Sample ID: 400-144551-17

Matrix: Water

Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	7.4		1.0	0.89	mg/L			10/22/17 08:04	1
Fluoride	<0.082		0.20	0.082	mg/L			10/22/17 08:04	1
Sulfate	0.82	J	1.0	0.70	mg/L			10/22/17 08:04	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Boron	0.31		0.050	0.021	mg/L		10/16/17 13:36	10/19/17 01:30	5
Calcium	2.0		0.25	0.13	mg/L		10/16/17 13:36	10/19/17 01:30	5

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	56		5.0	3.4	mg/L			10/18/17 13:49	1

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

Client Sample Results

Client: Southern Company
 Project/Site: CCR - Plant Scherer

TestAmerica Job ID: 400-144551-1
 SDG: Plant Scherer Ash Pond App III

Client Sample ID: SGWA-25

Date Collected: 10/11/17 09:50

Date Received: 10/13/17 08:31

Lab Sample ID: 400-144551-18

Matrix: Water

Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	1.7		1.0	0.89	mg/L			10/22/17 08:26	1
Fluoride	<0.082		0.20	0.082	mg/L			10/22/17 08:26	1
Sulfate	<0.70		1.0	0.70	mg/L			10/22/17 08:26	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Boron	<0.021		0.050	0.021	mg/L		10/16/17 13:36	10/19/17 01:35	5
Calcium	11		0.25	0.13	mg/L		10/16/17 13:36	10/19/17 01:35	5

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	94		5.0	3.4	mg/L			10/18/17 13:49	1

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

Client Sample Results

Client: Southern Company
 Project/Site: CCR - Plant Scherer

TestAmerica Job ID: 400-144551-1
 SDG: Plant Scherer Ash Pond App III

Client Sample ID: SGWC-7
Date Collected: 10/11/17 16:12
Date Received: 10/13/17 08:31

Lab Sample ID: 400-144551-19
Matrix: Water

Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	5.0		1.0	0.89	mg/L			10/22/17 08:49	1
Fluoride	0.21		0.20	0.082	mg/L			10/22/17 08:49	1
Sulfate	15		1.0	0.70	mg/L			10/22/17 08:49	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Boron	0.026	J	0.050	0.021	mg/L		10/16/17 13:36	10/19/17 01:39	5
Calcium	22		0.25	0.13	mg/L		10/16/17 13:36	10/19/17 01:39	5

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	210		5.0	3.4	mg/L			10/18/17 13:49	1

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

Client Sample Results

Client: Southern Company
 Project/Site: CCR - Plant Scherer

TestAmerica Job ID: 400-144551-1
 SDG: Plant Scherer Ash Pond App III

Client Sample ID: SGWC-23

Date Collected: 10/12/17 14:20

Date Received: 10/14/17 09:09

Lab Sample ID: 400-144551-20

Matrix: Water

Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	9.3		1.0	0.89	mg/L			10/22/17 09:35	1
Fluoride	<0.082		0.20	0.082	mg/L			10/22/17 09:35	1
Sulfate	120		5.0	3.5	mg/L			10/23/17 15:51	5

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Boron	0.54		0.050	0.021	mg/L		10/16/17 13:36	10/19/17 01:44	5
Calcium	31		0.25	0.13	mg/L		10/16/17 13:36	10/19/17 01:44	5

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	280		5.0	3.4	mg/L			10/19/17 13:14	1

- 1
- 2
- 3
- 4
- 5
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- 7
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Client Sample Results

Client: Southern Company
Project/Site: CCR - Plant Scherer

TestAmerica Job ID: 400-144551-1
SDG: Plant Scherer Ash Pond App III

Client Sample ID: SGWC-17

Date Collected: 10/12/17 13:00

Date Received: 10/14/17 09:09

Lab Sample ID: 400-144551-21

Matrix: Water

Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	8.0		1.0	0.89	mg/L			10/22/17 09:58	1
Fluoride	<0.082		0.20	0.082	mg/L			10/22/17 09:58	1
Sulfate	170		5.0	3.5	mg/L			10/23/17 16:14	5

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Boron	0.47		0.050	0.021	mg/L		10/16/17 13:36	10/19/17 01:48	5
Calcium	48		0.25	0.13	mg/L		10/16/17 13:36	10/19/17 01:48	5

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	380		5.0	3.4	mg/L			10/19/17 13:14	1

Client Sample Results

Client: Southern Company
Project/Site: CCR - Plant Scherer

TestAmerica Job ID: 400-144551-1
SDG: Plant Scherer Ash Pond App III

Client Sample ID: SGWC-16

Date Collected: 10/12/17 10:00

Date Received: 10/14/17 09:09

Lab Sample ID: 400-144551-22

Matrix: Water

Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	7.6		1.0	0.89	mg/L			10/22/17 10:43	1
Fluoride	<0.082		0.20	0.082	mg/L			10/22/17 10:43	1
Sulfate	20		1.0	0.70	mg/L			10/22/17 10:43	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Boron	0.57		0.050	0.021	mg/L		10/16/17 13:36	10/19/17 01:53	5
Calcium	1.1		0.25	0.13	mg/L		10/16/17 13:36	10/19/17 01:53	5

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	68		5.0	3.4	mg/L			10/19/17 13:14	1

Client Sample Results

Client: Southern Company
Project/Site: CCR - Plant Scherer

TestAmerica Job ID: 400-144551-1
SDG: Plant Scherer Ash Pond App III

Client Sample ID: SGWC-15

Date Collected: 10/12/17 08:55

Date Received: 10/14/17 09:09

Lab Sample ID: 400-144551-23

Matrix: Water

Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	9.2		1.0	0.89	mg/L			10/22/17 11:06	1
Fluoride	0.13	J	0.20	0.082	mg/L			10/22/17 11:06	1
Sulfate	190		5.0	3.5	mg/L			10/23/17 16:37	5

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Boron	1.6		0.050	0.021	mg/L		10/16/17 13:36	10/19/17 01:57	5
Calcium	17		0.25	0.13	mg/L		10/16/17 13:36	10/19/17 01:57	5

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	330		5.0	3.4	mg/L			10/19/17 13:14	1

Client Sample Results

Client: Southern Company
 Project/Site: CCR - Plant Scherer

TestAmerica Job ID: 400-144551-1
 SDG: Plant Scherer Ash Pond App III

Client Sample ID: FB-3(AP)

Date Collected: 10/12/17 08:45

Date Received: 10/14/17 09:09

Lab Sample ID: 400-144551-24

Matrix: Water

Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<0.89		1.0	0.89	mg/L			10/22/17 11:29	1
Fluoride	<0.082		0.20	0.082	mg/L			10/22/17 11:29	1
Sulfate	<0.70		1.0	0.70	mg/L			10/22/17 11:29	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Boron	<0.021		0.050	0.021	mg/L		10/16/17 13:36	10/19/17 02:02	5
Calcium	<0.13		0.25	0.13	mg/L		10/16/17 13:36	10/19/17 02:02	5

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	<3.4		5.0	3.4	mg/L			10/19/17 13:14	1



Client Sample Results

Client: Southern Company
Project/Site: CCR - Plant Scherer

TestAmerica Job ID: 400-144551-1
SDG: Plant Scherer Ash Pond App III

Client Sample ID: SGWC-19

Date Collected: 10/12/17 14:53

Date Received: 10/14/17 09:09

Lab Sample ID: 400-144551-25

Matrix: Water

Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	7.4		1.0	0.89	mg/L			10/22/17 12:38	1
Fluoride	<0.082		0.20	0.082	mg/L			10/22/17 12:38	1
Sulfate	210		5.0	3.5	mg/L			10/23/17 17:00	5

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Boron	1.9		0.25	0.11	mg/L		10/16/17 13:36	10/19/17 02:29	25
Calcium	39		1.3	0.63	mg/L		10/16/17 13:36	10/19/17 02:29	25

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	370		5.0	3.4	mg/L			10/19/17 13:14	1

Client Sample Results

Client: Southern Company
 Project/Site: CCR - Plant Scherer

TestAmerica Job ID: 400-144551-1
 SDG: Plant Scherer Ash Pond App III

Client Sample ID: SGWC-20

Date Collected: 10/12/17 13:20

Date Received: 10/14/17 09:09

Lab Sample ID: 400-144551-26

Matrix: Water

Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	11		1.0	0.89	mg/L			10/22/17 13:00	1
Fluoride	0.18	J	0.20	0.082	mg/L			10/22/17 13:00	1
Sulfate	210		5.0	3.5	mg/L			10/23/17 17:45	5

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Boron	2.6		0.25	0.11	mg/L		10/16/17 13:36	10/19/17 02:33	25
Calcium	17		1.3	0.63	mg/L		10/16/17 13:36	10/19/17 02:33	25

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	350		5.0	3.4	mg/L			10/19/17 13:14	1

- 1
- 2
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- 11
- 12
- 13
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Client Sample Results

Client: Southern Company
 Project/Site: CCR - Plant Scherer

TestAmerica Job ID: 400-144551-1
 SDG: Plant Scherer Ash Pond App III

Client Sample ID: SGWC-21
Date Collected: 10/12/17 10:48
Date Received: 10/14/17 09:09

Lab Sample ID: 400-144551-27
Matrix: Water

Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	8.1		1.0	0.89	mg/L			10/22/17 13:23	1
Fluoride	<0.082		0.20	0.082	mg/L			10/22/17 13:23	1
Sulfate	76		5.0	3.5	mg/L			10/23/17 18:08	5

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Boron	1.4		0.050	0.021	mg/L		10/18/17 14:26	10/19/17 17:28	5
Calcium	31		0.25	0.13	mg/L		10/18/17 14:26	10/19/17 17:28	5

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	290		5.0	3.4	mg/L			10/19/17 13:14	1

- 1
- 2
- 3
- 4
- 5
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- 7
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- 11
- 12
- 13
- 14

Client Sample Results

Client: Southern Company
Project/Site: CCR - Plant Scherer

TestAmerica Job ID: 400-144551-1
SDG: Plant Scherer Ash Pond App III

Client Sample ID: SGWC-22

Date Collected: 10/12/17 09:07

Date Received: 10/14/17 09:09

Lab Sample ID: 400-144551-28

Matrix: Water

Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	9.7		1.0	0.89	mg/L			10/22/17 13:46	1
Fluoride	<0.082		0.20	0.082	mg/L			10/22/17 13:46	1
Sulfate	87		5.0	3.5	mg/L			10/23/17 18:31	5

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Boron	0.40		0.050	0.021	mg/L		10/18/17 14:26	10/19/17 17:32	5
Calcium	27		0.25	0.13	mg/L		10/18/17 14:26	10/19/17 17:32	5

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	230		5.0	3.4	mg/L			10/19/17 13:14	1

Client Sample Results

Client: Southern Company
Project/Site: CCR - Plant Scherer

TestAmerica Job ID: 400-144551-1
SDG: Plant Scherer Ash Pond App III

Client Sample ID: FD-3(AP)

Date Collected: 10/12/17 00:00

Date Received: 10/14/17 09:09

Lab Sample ID: 400-144551-29

Matrix: Water

Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	9.8		1.0	0.89	mg/L			10/22/17 14:09	1
Fluoride	<0.082		0.20	0.082	mg/L			10/22/17 14:09	1
Sulfate	88		5.0	3.5	mg/L			10/23/17 19:39	5

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Boron	0.41		0.050	0.021	mg/L		10/18/17 14:26	10/19/17 17:37	5
Calcium	28		0.25	0.13	mg/L		10/18/17 14:26	10/19/17 17:37	5

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	210		5.0	3.4	mg/L			10/18/17 13:49	1

Client Sample Results

Client: Southern Company
Project/Site: CCR - Plant Scherer

TestAmerica Job ID: 400-144551-1
SDG: Plant Scherer Ash Pond App III

Client Sample ID: SGWC-8

Date Collected: 10/12/17 10:35

Date Received: 10/14/17 09:09

Lab Sample ID: 400-144551-30

Matrix: Water

Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	11		1.0	0.89	mg/L			10/22/17 14:32	1
Fluoride	0.47		0.20	0.082	mg/L			10/22/17 14:32	1
Sulfate	74		5.0	3.5	mg/L			10/23/17 20:02	5

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Boron	0.075		0.050	0.021	mg/L		10/18/17 14:26	10/19/17 17:41	5
Calcium	51		0.25	0.13	mg/L		10/18/17 14:26	10/19/17 17:41	5

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	400		5.0	3.4	mg/L			10/19/17 16:01	1

Client Sample Results

Client: Southern Company
Project/Site: CCR - Plant Scherer

TestAmerica Job ID: 400-144551-1
SDG: Plant Scherer Ash Pond App III

Client Sample ID: SGWC-9

Date Collected: 10/12/17 14:10

Date Received: 10/14/17 09:09

Lab Sample ID: 400-144551-31

Matrix: Water

Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	11		1.0	0.89	mg/L			10/23/17 11:40	1
Fluoride	<0.082		0.20	0.082	mg/L			10/23/17 11:40	1
Sulfate	310		10	7.0	mg/L			10/23/17 20:25	10

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Boron	1.8		0.050	0.021	mg/L		10/18/17 14:26	10/19/17 17:46	5
Calcium	55		0.25	0.13	mg/L		10/18/17 14:26	10/19/17 17:46	5

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	560		5.0	3.4	mg/L			10/19/17 16:01	1

Client Sample Results

Client: Southern Company
 Project/Site: CCR - Plant Scherer

TestAmerica Job ID: 400-144551-1
 SDG: Plant Scherer Ash Pond App III

Client Sample ID: EB-3(AP)
Date Collected: 10/12/17 14:45
Date Received: 10/14/17 09:09

Lab Sample ID: 400-144551-32
Matrix: Water

Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<0.89		1.0	0.89	mg/L			10/23/17 12:49	1
Fluoride	<0.082		0.20	0.082	mg/L			10/23/17 12:49	1
Sulfate	<0.70		1.0	0.70	mg/L			10/23/17 12:49	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Boron	<0.021		0.050	0.021	mg/L		10/18/17 14:26	10/19/17 17:50	5
Calcium	<0.13		0.25	0.13	mg/L		10/18/17 14:26	10/19/17 17:50	5

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	<3.4		5.0	3.4	mg/L			10/19/17 16:01	1



Client Sample Results

Client: Southern Company
Project/Site: CCR - Plant Scherer

TestAmerica Job ID: 400-144551-1
SDG: Plant Scherer Ash Pond App III

Client Sample ID: SGWC-10

Date Collected: 10/12/17 11:25

Date Received: 10/14/17 09:09

Lab Sample ID: 400-144551-33

Matrix: Water

Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	8.5		1.0	0.89	mg/L			10/23/17 13:11	1
Fluoride	<0.082		0.20	0.082	mg/L			10/23/17 13:11	1
Sulfate	1.3		1.0	0.70	mg/L			10/23/17 13:11	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Boron	0.049	J	0.050	0.021	mg/L		10/18/17 14:26	10/19/17 17:55	5
Calcium	1.2		0.25	0.13	mg/L		10/18/17 14:26	10/19/17 17:55	5

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	46		5.0	3.4	mg/L			10/19/17 16:01	1

Client Sample Results

Client: Southern Company
 Project/Site: CCR - Plant Scherer

TestAmerica Job ID: 400-144551-1
 SDG: Plant Scherer Ash Pond App III

Client Sample ID: SGWC-18

Date Collected: 10/12/17 15:50

Date Received: 10/14/17 09:09

Lab Sample ID: 400-144551-34

Matrix: Water

Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	7.4		5.0	4.5	mg/L			10/23/17 13:34	5
Fluoride	<0.41		1.0	0.41	mg/L			10/23/17 13:34	5
Sulfate	430		25	18	mg/L			10/23/17 20:48	25

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Boron	3.9		0.25	0.11	mg/L		10/18/17 14:26	10/19/17 17:59	25
Calcium	43		1.3	0.63	mg/L		10/18/17 14:26	10/19/17 17:59	25

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	640		5.0	3.4	mg/L			10/19/17 16:01	1

Definitions/Glossary

Client: Southern Company
Project/Site: CCR - Plant Scherer

TestAmerica Job ID: 400-144551-1
SDG: Plant Scherer Ash Pond App III

Qualifiers

HPLC/IC

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.
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.

Metals

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

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
α	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
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)
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
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)

Lab Chronicle

Client: Southern Company
Project/Site: CCR - Plant Scherer

TestAmerica Job ID: 400-144551-1
SDG: Plant Scherer Ash Pond App III

Client Sample ID: SGWA-1

Date Collected: 10/10/17 16:00

Date Received: 10/12/17 08:31

Lab Sample ID: 400-144551-1

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	300.0		1	372791	10/21/17 21:24	JAW	TAL PEN
Total Recoverable	Prep	3005A			372027	10/16/17 12:49	DN1	TAL PEN
Total Recoverable	Analysis	6020		5	372482	10/18/17 22:57	DRE	TAL PEN
Total/NA	Analysis	SM 2540C		1	371972	10/16/17 13:07	RRC	TAL PEN

Client Sample ID: SGWA-2

Date Collected: 10/10/17 13:30

Date Received: 10/12/17 08:31

Lab Sample ID: 400-144551-2

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	300.0		1	372791	10/21/17 21:47	JAW	TAL PEN
Total Recoverable	Prep	3005A			372027	10/16/17 12:49	DN1	TAL PEN
Total Recoverable	Analysis	6020		5	372482	10/18/17 23:02	DRE	TAL PEN
Total/NA	Analysis	SM 2540C		1	371972	10/16/17 13:07	RRC	TAL PEN

Client Sample ID: SGWA-24

Date Collected: 10/10/17 10:30

Date Received: 10/12/17 08:31

Lab Sample ID: 400-144551-3

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	300.0		1	372791	10/21/17 22:33	JAW	TAL PEN
Total Recoverable	Prep	3005A			372027	10/16/17 12:49	DN1	TAL PEN
Total Recoverable	Analysis	6020		5	372482	10/18/17 23:06	DRE	TAL PEN
Total/NA	Analysis	SM 2540C		1	371996	10/16/17 16:03	RRC	TAL PEN

Client Sample ID: EB-1(AP)

Date Collected: 10/10/17 16:25

Date Received: 10/12/17 08:31

Lab Sample ID: 400-144551-4

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	300.0		1	372791	10/21/17 22:56	JAW	TAL PEN
Total Recoverable	Prep	3005A			372027	10/16/17 12:49	DN1	TAL PEN
Total Recoverable	Analysis	6020		5	372482	10/18/17 23:11	DRE	TAL PEN
Total/NA	Analysis	SM 2540C		1	371996	10/16/17 16:03	RRC	TAL PEN

Client Sample ID: FD-1(AP)

Date Collected: 10/10/17 00:00

Date Received: 10/12/17 08:31

Lab Sample ID: 400-144551-5

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	300.0		1	372791	10/21/17 23:18	JAW	TAL PEN
Total Recoverable	Prep	3005A			372027	10/16/17 12:49	DN1	TAL PEN

TestAmerica Pensacola

Lab Chronicle

Client: Southern Company
Project/Site: CCR - Plant Scherer

TestAmerica Job ID: 400-144551-1
SDG: Plant Scherer Ash Pond App III

Client Sample ID: FD-1(AP)

Date Collected: 10/10/17 00:00

Date Received: 10/12/17 08:31

Lab Sample ID: 400-144551-5

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total Recoverable	Analysis	6020		5	372482	10/18/17 23:15	DRE	TAL PEN
Total/NA	Analysis	SM 2540C		1	371893	10/14/17 14:50	TET	TAL PEN

Client Sample ID: FB-1(AP)

Date Collected: 10/10/17 10:20

Date Received: 10/12/17 08:31

Lab Sample ID: 400-144551-6

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	300.0		1	372791	10/22/17 00:27	JAW	TAL PEN
Total Recoverable	Prep	3005A			372027	10/16/17 12:49	DN1	TAL PEN
Total Recoverable	Analysis	6020		5	372482	10/18/17 23:20	DRE	TAL PEN
Total/NA	Analysis	SM 2540C		1	371996	10/16/17 16:03	RRC	TAL PEN

Client Sample ID: SGWA-4

Date Collected: 10/11/17 14:10

Date Received: 10/13/17 08:31

Lab Sample ID: 400-144551-7

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	300.0		1	372791	10/22/17 00:50	JAW	TAL PEN
Total Recoverable	Prep	3005A			372032	10/16/17 13:36	DN1	TAL PEN
Total Recoverable	Analysis	6020		5	372482	10/18/17 23:42	DRE	TAL PEN
Total/NA	Analysis	SM 2540C		1	372343	10/18/17 13:49	TET	TAL PEN

Client Sample ID: SGWA-3

Date Collected: 10/11/17 13:10

Date Received: 10/13/17 08:31

Lab Sample ID: 400-144551-8

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	300.0		1	372791	10/22/17 01:13	JAW	TAL PEN
Total Recoverable	Prep	3005A			372032	10/16/17 13:36	DN1	TAL PEN
Total Recoverable	Analysis	6020		5	372482	10/19/17 00:27	DRE	TAL PEN
Total/NA	Analysis	SM 2540C		1	372343	10/18/17 13:49	TET	TAL PEN

Client Sample ID: SGWA-5

Date Collected: 10/11/17 10:50

Date Received: 10/13/17 08:31

Lab Sample ID: 400-144551-9

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	300.0		1	372791	10/22/17 01:35	JAW	TAL PEN
Total Recoverable	Prep	3005A			372032	10/16/17 13:36	DN1	TAL PEN
Total Recoverable	Analysis	6020		5	372482	10/19/17 00:32	DRE	TAL PEN
Total/NA	Analysis	SM 2540C		1	372343	10/18/17 13:49	TET	TAL PEN

TestAmerica Pensacola

Lab Chronicle

Client: Southern Company
Project/Site: CCR - Plant Scherer

TestAmerica Job ID: 400-144551-1
SDG: Plant Scherer Ash Pond App III

Client Sample ID: EB-2(AP)

Date Collected: 10/11/17 16:30

Date Received: 10/13/17 08:31

Lab Sample ID: 400-144551-10

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	300.0		1	372791	10/22/17 01:58	JAW	TAL PEN
Total Recoverable	Prep	3005A			372032	10/16/17 13:36	DN1	TAL PEN
Total Recoverable	Analysis	6020		5	372482	10/19/17 00:36	DRE	TAL PEN
Total/NA	Analysis	SM 2540C		1	372343	10/18/17 13:49	TET	TAL PEN

Client Sample ID: FD-2(AP)

Date Collected: 10/11/17 00:00

Date Received: 10/13/17 08:31

Lab Sample ID: 400-144551-11

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	300.0		1	372791	10/22/17 02:21	JAW	TAL PEN
Total Recoverable	Prep	3005A			372032	10/16/17 13:36	DN1	TAL PEN
Total Recoverable	Analysis	6020		5	372482	10/19/17 00:41	DRE	TAL PEN
Total/NA	Analysis	SM 2540C		1	371996	10/16/17 16:03	RRC	TAL PEN

Client Sample ID: FB-2(AP)

Date Collected: 10/11/17 11:10

Date Received: 10/13/17 08:31

Lab Sample ID: 400-144551-12

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	300.0		1	372851	10/22/17 04:38	JAW	TAL PEN
Total Recoverable	Prep	3005A			372032	10/16/17 13:36	DN1	TAL PEN
Total Recoverable	Analysis	6020		5	372482	10/19/17 00:45	DRE	TAL PEN
Total/NA	Analysis	SM 2540C		1	372343	10/18/17 13:49	TET	TAL PEN

Client Sample ID: SGWC-14

Date Collected: 10/11/17 15:50

Date Received: 10/13/17 08:31

Lab Sample ID: 400-144551-13

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	300.0		1	372851	10/22/17 05:47	JAW	TAL PEN
Total/NA	Analysis	300.0		5	372924	10/23/17 15:05	JAW	TAL PEN
Total Recoverable	Prep	3005A			372032	10/16/17 13:36	DN1	TAL PEN
Total Recoverable	Analysis	6020		5	372482	10/19/17 00:50	DRE	TAL PEN
Total/NA	Analysis	SM 2540C		1	372343	10/18/17 13:49	TET	TAL PEN

Client Sample ID: SGWC-6

Date Collected: 10/11/17 15:10

Date Received: 10/13/17 08:31

Lab Sample ID: 400-144551-14

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	300.0		1	372851	10/22/17 06:09	JAW	TAL PEN

TestAmerica Pensacola

Lab Chronicle

Client: Southern Company
Project/Site: CCR - Plant Scherer

TestAmerica Job ID: 400-144551-1
SDG: Plant Scherer Ash Pond App III

Client Sample ID: SGWC-6

Lab Sample ID: 400-144551-14

Date Collected: 10/11/17 15:10

Matrix: Water

Date Received: 10/13/17 08:31

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total Recoverable	Prep	3005A			372032	10/16/17 13:36	DN1	TAL PEN
Total Recoverable	Analysis	6020		5	372482	10/19/17 00:54	DRE	TAL PEN
Total/NA	Analysis	SM 2540C		1	372343	10/18/17 13:49	TET	TAL PEN

Client Sample ID: SGWC-13

Lab Sample ID: 400-144551-15

Date Collected: 10/11/17 14:25

Matrix: Water

Date Received: 10/13/17 08:31

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	300.0		1	372851	10/22/17 06:32	JAW	TAL PEN
Total/NA	Analysis	300.0		5	372924	10/23/17 15:28	JAW	TAL PEN
Total Recoverable	Prep	3005A			372032	10/16/17 13:36	DN1	TAL PEN
Total Recoverable	Analysis	6020		5	372482	10/19/17 01:21	DRE	TAL PEN
Total/NA	Analysis	SM 2540C		1	372343	10/18/17 13:49	TET	TAL PEN

Client Sample ID: SGWC-12

Lab Sample ID: 400-144551-16

Date Collected: 10/11/17 13:15

Matrix: Water

Date Received: 10/13/17 08:31

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	300.0		1	372851	10/22/17 06:55	JAW	TAL PEN
Total Recoverable	Prep	3005A			372032	10/16/17 13:36	DN1	TAL PEN
Total Recoverable	Analysis	6020		5	372482	10/19/17 01:26	DRE	TAL PEN
Total/NA	Analysis	SM 2540C		1	372343	10/18/17 13:49	TET	TAL PEN

Client Sample ID: SGWC-11

Lab Sample ID: 400-144551-17

Date Collected: 10/11/17 11:30

Matrix: Water

Date Received: 10/13/17 08:31

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	300.0		1	372851	10/22/17 08:04	JAW	TAL PEN
Total Recoverable	Prep	3005A			372032	10/16/17 13:36	DN1	TAL PEN
Total Recoverable	Analysis	6020		5	372482	10/19/17 01:30	DRE	TAL PEN
Total/NA	Analysis	SM 2540C		1	372343	10/18/17 13:49	TET	TAL PEN

Client Sample ID: SGWA-25

Lab Sample ID: 400-144551-18

Date Collected: 10/11/17 09:50

Matrix: Water

Date Received: 10/13/17 08:31

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	300.0		1	372851	10/22/17 08:26	JAW	TAL PEN
Total Recoverable	Prep	3005A			372032	10/16/17 13:36	DN1	TAL PEN

TestAmerica Pensacola

Lab Chronicle

Client: Southern Company
Project/Site: CCR - Plant Scherer

TestAmerica Job ID: 400-144551-1
SDG: Plant Scherer Ash Pond App III

Client Sample ID: SGWA-25

Lab Sample ID: 400-144551-18

Date Collected: 10/11/17 09:50

Matrix: Water

Date Received: 10/13/17 08:31

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total Recoverable	Analysis	6020		5	372482	10/19/17 01:35	DRE	TAL PEN
Total/NA	Analysis	SM 2540C		1	372343	10/18/17 13:49	TET	TAL PEN

Client Sample ID: SGWC-7

Lab Sample ID: 400-144551-19

Date Collected: 10/11/17 16:12

Matrix: Water

Date Received: 10/13/17 08:31

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	300.0		1	372851	10/22/17 08:49	JAW	TAL PEN
Total Recoverable	Prep	3005A			372032	10/16/17 13:36	DN1	TAL PEN
Total Recoverable	Analysis	6020		5	372482	10/19/17 01:39	DRE	TAL PEN
Total/NA	Analysis	SM 2540C		1	372343	10/18/17 13:49	TET	TAL PEN

Client Sample ID: SGWC-23

Lab Sample ID: 400-144551-20

Date Collected: 10/12/17 14:20

Matrix: Water

Date Received: 10/14/17 09:09

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	300.0		1	372851	10/22/17 09:35	JAW	TAL PEN
Total/NA	Analysis	300.0		5	372924	10/23/17 15:51	JAW	TAL PEN
Total Recoverable	Prep	3005A			372032	10/16/17 13:36	DN1	TAL PEN
Total Recoverable	Analysis	6020		5	372482	10/19/17 01:44	DRE	TAL PEN
Total/NA	Analysis	SM 2540C		1	372515	10/19/17 13:14	TET	TAL PEN

Client Sample ID: SGWC-17

Lab Sample ID: 400-144551-21

Date Collected: 10/12/17 13:00

Matrix: Water

Date Received: 10/14/17 09:09

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	300.0		1	372851	10/22/17 09:58	JAW	TAL PEN
Total/NA	Analysis	300.0		5	372924	10/23/17 16:14	JAW	TAL PEN
Total Recoverable	Prep	3005A			372032	10/16/17 13:36	DN1	TAL PEN
Total Recoverable	Analysis	6020		5	372482	10/19/17 01:48	DRE	TAL PEN
Total/NA	Analysis	SM 2540C		1	372515	10/19/17 13:14	TET	TAL PEN

Client Sample ID: SGWC-16

Lab Sample ID: 400-144551-22

Date Collected: 10/12/17 10:00

Matrix: Water

Date Received: 10/14/17 09:09

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	300.0		1	372851	10/22/17 10:43	JAW	TAL PEN
Total Recoverable	Prep	3005A			372032	10/16/17 13:36	DN1	TAL PEN

TestAmerica Pensacola

Lab Chronicle

Client: Southern Company
Project/Site: CCR - Plant Scherer

TestAmerica Job ID: 400-144551-1
SDG: Plant Scherer Ash Pond App III

Client Sample ID: SGWC-16

Lab Sample ID: 400-144551-22

Date Collected: 10/12/17 10:00

Matrix: Water

Date Received: 10/14/17 09:09

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total Recoverable	Analysis	6020		5	372482	10/19/17 01:53	DRE	TAL PEN
Total/NA	Analysis	SM 2540C		1	372515	10/19/17 13:14	TET	TAL PEN

Client Sample ID: SGWC-15

Lab Sample ID: 400-144551-23

Date Collected: 10/12/17 08:55

Matrix: Water

Date Received: 10/14/17 09:09

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	300.0		1	372851	10/22/17 11:06	JAW	TAL PEN
Total/NA	Analysis	300.0		5	372924	10/23/17 16:37	JAW	TAL PEN
Total Recoverable	Prep	3005A			372032	10/16/17 13:36	DN1	TAL PEN
Total Recoverable	Analysis	6020		5	372482	10/19/17 01:57	DRE	TAL PEN
Total/NA	Analysis	SM 2540C		1	372515	10/19/17 13:14	TET	TAL PEN

Client Sample ID: FB-3(AP)

Lab Sample ID: 400-144551-24

Date Collected: 10/12/17 08:45

Matrix: Water

Date Received: 10/14/17 09:09

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	300.0		1	372851	10/22/17 11:29	JAW	TAL PEN
Total Recoverable	Prep	3005A			372032	10/16/17 13:36	DN1	TAL PEN
Total Recoverable	Analysis	6020		5	372482	10/19/17 02:02	DRE	TAL PEN
Total/NA	Analysis	SM 2540C		1	372515	10/19/17 13:14	TET	TAL PEN

Client Sample ID: SGWC-19

Lab Sample ID: 400-144551-25

Date Collected: 10/12/17 14:53

Matrix: Water

Date Received: 10/14/17 09:09

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	300.0		1	372851	10/22/17 12:38	JAW	TAL PEN
Total/NA	Analysis	300.0		5	372924	10/23/17 17:00	JAW	TAL PEN
Total Recoverable	Prep	3005A	DL		372032	10/16/17 13:36	DN1	TAL PEN
Total Recoverable	Analysis	6020	DL	25	372482	10/19/17 02:29	DRE	TAL PEN
Total/NA	Analysis	SM 2540C		1	372515	10/19/17 13:14	TET	TAL PEN

Client Sample ID: SGWC-20

Lab Sample ID: 400-144551-26

Date Collected: 10/12/17 13:20

Matrix: Water

Date Received: 10/14/17 09:09

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	300.0		1	372851	10/22/17 13:00	JAW	TAL PEN
Total/NA	Analysis	300.0		5	372924	10/23/17 17:45	JAW	TAL PEN

TestAmerica Pensacola

Lab Chronicle

Client: Southern Company
Project/Site: CCR - Plant Scherer

TestAmerica Job ID: 400-144551-1
SDG: Plant Scherer Ash Pond App III

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total Recoverable	Prep	3005A	DL		372032	10/16/17 13:36	DN1	TAL PEN
Total Recoverable	Analysis	6020	DL	25	372482	10/19/17 02:33	DRE	TAL PEN
Total/NA	Analysis	SM 2540C		1	372515	10/19/17 13:14	TET	TAL PEN

Client Sample ID: SGWC-21

Lab Sample ID: 400-144551-27

Date Collected: 10/12/17 10:48

Matrix: Water

Date Received: 10/14/17 09:09

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	300.0		1	372851	10/22/17 13:23	JAW	TAL PEN
Total/NA	Analysis	300.0		5	372924	10/23/17 18:08	JAW	TAL PEN
Total Recoverable	Prep	3005A			372369	10/18/17 14:26	DN1	TAL PEN
Total Recoverable	Analysis	6020		5	372643	10/19/17 17:28	DRE	TAL PEN
Total/NA	Analysis	SM 2540C		1	372515	10/19/17 13:14	TET	TAL PEN

Client Sample ID: SGWC-22

Lab Sample ID: 400-144551-28

Date Collected: 10/12/17 09:07

Matrix: Water

Date Received: 10/14/17 09:09

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	300.0		1	372851	10/22/17 13:46	JAW	TAL PEN
Total/NA	Analysis	300.0		5	372924	10/23/17 18:31	JAW	TAL PEN
Total Recoverable	Prep	3005A			372369	10/18/17 14:26	DN1	TAL PEN
Total Recoverable	Analysis	6020		5	372643	10/19/17 17:32	DRE	TAL PEN
Total/NA	Analysis	SM 2540C		1	372515	10/19/17 13:14	TET	TAL PEN

Client Sample ID: FD-3(AP)

Lab Sample ID: 400-144551-29

Date Collected: 10/12/17 00:00

Matrix: Water

Date Received: 10/14/17 09:09

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	300.0		1	372851	10/22/17 14:09	JAW	TAL PEN
Total/NA	Analysis	300.0		5	372924	10/23/17 19:39	JAW	TAL PEN
Total Recoverable	Prep	3005A			372369	10/18/17 14:26	DN1	TAL PEN
Total Recoverable	Analysis	6020		5	372643	10/19/17 17:37	DRE	TAL PEN
Total/NA	Analysis	SM 2540C		1	372343	10/18/17 13:49	TET	TAL PEN

Client Sample ID: SGWC-8

Lab Sample ID: 400-144551-30

Date Collected: 10/12/17 10:35

Matrix: Water

Date Received: 10/14/17 09:09

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	300.0		1	372851	10/22/17 14:32	JAW	TAL PEN
Total/NA	Analysis	300.0		5	372924	10/23/17 20:02	JAW	TAL PEN
Total Recoverable	Prep	3005A			372369	10/18/17 14:26	DN1	TAL PEN
Total Recoverable	Analysis	6020		5	372643	10/19/17 17:41	DRE	TAL PEN

TestAmerica Pensacola

Lab Chronicle

Client: Southern Company
Project/Site: CCR - Plant Scherer

TestAmerica Job ID: 400-144551-1
SDG: Plant Scherer Ash Pond App III

Client Sample ID: SGWC-8

Date Collected: 10/12/17 10:35

Date Received: 10/14/17 09:09

Lab Sample ID: 400-144551-30

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	SM 2540C		1	372516	10/19/17 16:01	TET	TAL PEN

Client Sample ID: SGWC-9

Date Collected: 10/12/17 14:10

Date Received: 10/14/17 09:09

Lab Sample ID: 400-144551-31

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	300.0		1	372924	10/23/17 11:40	JAW	TAL PEN
Total/NA	Analysis	300.0		10	372924	10/23/17 20:25	JAW	TAL PEN
Total Recoverable	Prep	3005A			372369	10/18/17 14:26	DN1	TAL PEN
Total Recoverable	Analysis	6020		5	372643	10/19/17 17:46	DRE	TAL PEN
Total/NA	Analysis	SM 2540C		1	372516	10/19/17 16:01	TET	TAL PEN

Client Sample ID: EB-3(AP)

Date Collected: 10/12/17 14:45

Date Received: 10/14/17 09:09

Lab Sample ID: 400-144551-32

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	300.0		1	372924	10/23/17 12:49	JAW	TAL PEN
Total Recoverable	Prep	3005A			372369	10/18/17 14:26	DN1	TAL PEN
Total Recoverable	Analysis	6020		5	372643	10/19/17 17:50	DRE	TAL PEN
Total/NA	Analysis	SM 2540C		1	372516	10/19/17 16:01	TET	TAL PEN

Client Sample ID: SGWC-10

Date Collected: 10/12/17 11:25

Date Received: 10/14/17 09:09

Lab Sample ID: 400-144551-33

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	300.0		1	372924	10/23/17 13:11	JAW	TAL PEN
Total Recoverable	Prep	3005A			372369	10/18/17 14:26	DN1	TAL PEN
Total Recoverable	Analysis	6020		5	372643	10/19/17 17:55	DRE	TAL PEN
Total/NA	Analysis	SM 2540C		1	372516	10/19/17 16:01	TET	TAL PEN

Client Sample ID: SGWC-18

Date Collected: 10/12/17 15:50

Date Received: 10/14/17 09:09

Lab Sample ID: 400-144551-34

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	300.0		5	372924	10/23/17 13:34	JAW	TAL PEN
Total/NA	Analysis	300.0		25	372924	10/23/17 20:48	JAW	TAL PEN
Total Recoverable	Prep	3005A	DL		372369	10/18/17 14:26	DN1	TAL PEN
Total Recoverable	Analysis	6020	DL	25	372643	10/19/17 17:59	DRE	TAL PEN

TestAmerica Pensacola

Lab Chronicle

Client: Southern Company
Project/Site: CCR - Plant Scherer

TestAmerica Job ID: 400-144551-1
SDG: Plant Scherer Ash Pond App III

Client Sample ID: SGWC-18

Lab Sample ID: 400-144551-34

Date Collected: 10/12/17 15:50

Matrix: Water

Date Received: 10/14/17 09:09

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	SM 2540C		1	372516	10/19/17 16:01	TET	TAL PEN

Laboratory References:

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

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QC Association Summary

Client: Southern Company
Project/Site: CCR - Plant Scherer

TestAmerica Job ID: 400-144551-1
SDG: Plant Scherer Ash Pond App III

HPLC/IC

Analysis Batch: 372791

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-144551-1	SGWA-1	Total/NA	Water	300.0	
400-144551-2	SGWA-2	Total/NA	Water	300.0	
400-144551-3	SGWA-24	Total/NA	Water	300.0	
400-144551-4	EB-1(AP)	Total/NA	Water	300.0	
400-144551-5	FD-1(AP)	Total/NA	Water	300.0	
400-144551-6	FB-1(AP)	Total/NA	Water	300.0	
400-144551-7	SGWA-4	Total/NA	Water	300.0	
400-144551-8	SGWA-3	Total/NA	Water	300.0	
400-144551-9	SGWA-5	Total/NA	Water	300.0	
400-144551-10	EB-2(AP)	Total/NA	Water	300.0	
400-144551-11	FD-2(AP)	Total/NA	Water	300.0	
MB 400-372791/4	Method Blank	Total/NA	Water	300.0	
LCS 400-372791/5	Lab Control Sample	Total/NA	Water	300.0	
LCSD 400-372791/6	Lab Control Sample Dup	Total/NA	Water	300.0	
400-144550-A-17 MS	Matrix Spike	Total/NA	Water	300.0	
400-144550-A-17 MSD	Matrix Spike Duplicate	Total/NA	Water	300.0	

Analysis Batch: 372851

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-144551-12	FB-2(AP)	Total/NA	Water	300.0	
400-144551-13	SGWC-14	Total/NA	Water	300.0	
400-144551-14	SGWC-6	Total/NA	Water	300.0	
400-144551-15	SGWC-13	Total/NA	Water	300.0	
400-144551-16	SGWC-12	Total/NA	Water	300.0	
400-144551-17	SGWC-11	Total/NA	Water	300.0	
400-144551-18	SGWA-25	Total/NA	Water	300.0	
400-144551-19	SGWC-7	Total/NA	Water	300.0	
400-144551-20	SGWC-23	Total/NA	Water	300.0	
400-144551-21	SGWC-17	Total/NA	Water	300.0	
400-144551-22	SGWC-16	Total/NA	Water	300.0	
400-144551-23	SGWC-15	Total/NA	Water	300.0	
400-144551-24	FB-3(AP)	Total/NA	Water	300.0	
400-144551-25	SGWC-19	Total/NA	Water	300.0	
400-144551-26	SGWC-20	Total/NA	Water	300.0	
400-144551-27	SGWC-21	Total/NA	Water	300.0	
400-144551-28	SGWC-22	Total/NA	Water	300.0	
400-144551-29	FD-3(AP)	Total/NA	Water	300.0	
400-144551-30	SGWC-8	Total/NA	Water	300.0	
MB 400-372851/36	Method Blank	Total/NA	Water	300.0	
LCS 400-372851/37	Lab Control Sample	Total/NA	Water	300.0	
LCSD 400-372851/38	Lab Control Sample Dup	Total/NA	Water	300.0	
400-144551-12 MS	FB-2(AP)	Total/NA	Water	300.0	
400-144551-12 MSD	FB-2(AP)	Total/NA	Water	300.0	

Analysis Batch: 372924

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-144551-13	SGWC-14	Total/NA	Water	300.0	
400-144551-15	SGWC-13	Total/NA	Water	300.0	
400-144551-20	SGWC-23	Total/NA	Water	300.0	
400-144551-21	SGWC-17	Total/NA	Water	300.0	
400-144551-23	SGWC-15	Total/NA	Water	300.0	

TestAmerica Pensacola

QC Association Summary

Client: Southern Company
Project/Site: CCR - Plant Scherer

TestAmerica Job ID: 400-144551-1
SDG: Plant Scherer Ash Pond App III

HPLC/IC (Continued)

Analysis Batch: 372924 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-144551-25	SGWC-19	Total/NA	Water	300.0	
400-144551-26	SGWC-20	Total/NA	Water	300.0	
400-144551-27	SGWC-21	Total/NA	Water	300.0	
400-144551-28	SGWC-22	Total/NA	Water	300.0	
400-144551-29	FD-3(AP)	Total/NA	Water	300.0	
400-144551-30	SGWC-8	Total/NA	Water	300.0	
400-144551-31	SGWC-9	Total/NA	Water	300.0	
400-144551-31	SGWC-9	Total/NA	Water	300.0	
400-144551-32	EB-3(AP)	Total/NA	Water	300.0	
400-144551-33	SGWC-10	Total/NA	Water	300.0	
400-144551-34	SGWC-18	Total/NA	Water	300.0	
400-144551-34	SGWC-18	Total/NA	Water	300.0	
MB 400-372924/4	Method Blank	Total/NA	Water	300.0	
LCS 400-372924/5	Lab Control Sample	Total/NA	Water	300.0	
LCSD 400-372924/6	Lab Control Sample Dup	Total/NA	Water	300.0	
400-144551-31 MS	SGWC-9	Total/NA	Water	300.0	
400-144551-31 MSD	SGWC-9	Total/NA	Water	300.0	

Metals

Prep Batch: 372027

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-144551-1	SGWA-1	Total Recoverable	Water	3005A	
400-144551-2	SGWA-2	Total Recoverable	Water	3005A	
400-144551-3	SGWA-24	Total Recoverable	Water	3005A	
400-144551-4	EB-1(AP)	Total Recoverable	Water	3005A	
400-144551-5	FD-1(AP)	Total Recoverable	Water	3005A	
400-144551-6	FB-1(AP)	Total Recoverable	Water	3005A	
MB 400-372027/1-A ^5	Method Blank	Total Recoverable	Water	3005A	
LCS 400-372027/2-A	Lab Control Sample	Total Recoverable	Water	3005A	
400-144550-B-12-B MS ^5	Matrix Spike	Total Recoverable	Water	3005A	
400-144550-B-12-C MSD ^5	Matrix Spike Duplicate	Total Recoverable	Water	3005A	

Prep Batch: 372032

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-144551-7	SGWA-4	Total Recoverable	Water	3005A	
400-144551-8	SGWA-3	Total Recoverable	Water	3005A	
400-144551-9	SGWA-5	Total Recoverable	Water	3005A	
400-144551-10	EB-2(AP)	Total Recoverable	Water	3005A	
400-144551-11	FD-2(AP)	Total Recoverable	Water	3005A	
400-144551-12	FB-2(AP)	Total Recoverable	Water	3005A	
400-144551-13	SGWC-14	Total Recoverable	Water	3005A	
400-144551-14	SGWC-6	Total Recoverable	Water	3005A	
400-144551-15	SGWC-13	Total Recoverable	Water	3005A	
400-144551-16	SGWC-12	Total Recoverable	Water	3005A	
400-144551-17	SGWC-11	Total Recoverable	Water	3005A	
400-144551-18	SGWA-25	Total Recoverable	Water	3005A	
400-144551-19	SGWC-7	Total Recoverable	Water	3005A	
400-144551-20	SGWC-23	Total Recoverable	Water	3005A	
400-144551-21	SGWC-17	Total Recoverable	Water	3005A	

TestAmerica Pensacola

QC Association Summary

Client: Southern Company
Project/Site: CCR - Plant Scherer

TestAmerica Job ID: 400-144551-1
SDG: Plant Scherer Ash Pond App III

Metals (Continued)

Prep Batch: 372032 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-144551-22	SGWC-16	Total Recoverable	Water	3005A	
400-144551-23	SGWC-15	Total Recoverable	Water	3005A	
400-144551-24	FB-3(AP)	Total Recoverable	Water	3005A	
400-144551-25 - DL	SGWC-19	Total Recoverable	Water	3005A	
400-144551-26 - DL	SGWC-20	Total Recoverable	Water	3005A	
MB 400-372032/1-A ^5	Method Blank	Total Recoverable	Water	3005A	
LCS 400-372032/2-A	Lab Control Sample	Total Recoverable	Water	3005A	
400-144551-7 MS	SGWA-4	Total Recoverable	Water	3005A	
400-144551-7 MSD	SGWA-4	Total Recoverable	Water	3005A	

Prep Batch: 372369

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-144551-27	SGWC-21	Total Recoverable	Water	3005A	
400-144551-28	SGWC-22	Total Recoverable	Water	3005A	
400-144551-29	FD-3(AP)	Total Recoverable	Water	3005A	
400-144551-30	SGWC-8	Total Recoverable	Water	3005A	
400-144551-31	SGWC-9	Total Recoverable	Water	3005A	
400-144551-32	EB-3(AP)	Total Recoverable	Water	3005A	
400-144551-33	SGWC-10	Total Recoverable	Water	3005A	
400-144551-34 - DL	SGWC-18	Total Recoverable	Water	3005A	
MB 400-372369/1-A ^5	Method Blank	Total Recoverable	Water	3005A	
LCS 400-372369/2-A	Lab Control Sample	Total Recoverable	Water	3005A	
400-144712-J-4-E MS ^5	Matrix Spike	Total Recoverable	Water	3005A	
400-144712-J-4-F MSD ^5	Matrix Spike Duplicate	Total Recoverable	Water	3005A	

Analysis Batch: 372482

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-144551-1	SGWA-1	Total Recoverable	Water	6020	372027
400-144551-2	SGWA-2	Total Recoverable	Water	6020	372027
400-144551-3	SGWA-24	Total Recoverable	Water	6020	372027
400-144551-4	EB-1(AP)	Total Recoverable	Water	6020	372027
400-144551-5	FD-1(AP)	Total Recoverable	Water	6020	372027
400-144551-6	FB-1(AP)	Total Recoverable	Water	6020	372027
400-144551-7	SGWA-4	Total Recoverable	Water	6020	372032
400-144551-8	SGWA-3	Total Recoverable	Water	6020	372032
400-144551-9	SGWA-5	Total Recoverable	Water	6020	372032
400-144551-10	EB-2(AP)	Total Recoverable	Water	6020	372032
400-144551-11	FD-2(AP)	Total Recoverable	Water	6020	372032
400-144551-12	FB-2(AP)	Total Recoverable	Water	6020	372032
400-144551-13	SGWC-14	Total Recoverable	Water	6020	372032
400-144551-14	SGWC-6	Total Recoverable	Water	6020	372032
400-144551-15	SGWC-13	Total Recoverable	Water	6020	372032
400-144551-16	SGWC-12	Total Recoverable	Water	6020	372032
400-144551-17	SGWC-11	Total Recoverable	Water	6020	372032
400-144551-18	SGWA-25	Total Recoverable	Water	6020	372032
400-144551-19	SGWC-7	Total Recoverable	Water	6020	372032
400-144551-20	SGWC-23	Total Recoverable	Water	6020	372032
400-144551-21	SGWC-17	Total Recoverable	Water	6020	372032
400-144551-22	SGWC-16	Total Recoverable	Water	6020	372032
400-144551-23	SGWC-15	Total Recoverable	Water	6020	372032
400-144551-24	FB-3(AP)	Total Recoverable	Water	6020	372032

TestAmerica Pensacola

QC Association Summary

Client: Southern Company
Project/Site: CCR - Plant Scherer

TestAmerica Job ID: 400-144551-1
SDG: Plant Scherer Ash Pond App III

Metals (Continued)

Analysis Batch: 372482 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-144551-25 - DL	SGWC-19	Total Recoverable	Water	6020	372032
400-144551-26 - DL	SGWC-20	Total Recoverable	Water	6020	372032
MB 400-372027/1-A ^5	Method Blank	Total Recoverable	Water	6020	372027
MB 400-372032/1-A ^5	Method Blank	Total Recoverable	Water	6020	372032
LCS 400-372027/2-A	Lab Control Sample	Total Recoverable	Water	6020	372027
LCS 400-372032/2-A	Lab Control Sample	Total Recoverable	Water	6020	372032
400-144550-B-12-B MS ^5	Matrix Spike	Total Recoverable	Water	6020	372027
400-144550-B-12-C MSD ^5	Matrix Spike Duplicate	Total Recoverable	Water	6020	372027
400-144551-7 MS	SGWA-4	Total Recoverable	Water	6020	372032
400-144551-7 MSD	SGWA-4	Total Recoverable	Water	6020	372032

Analysis Batch: 372643

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-144551-27	SGWC-21	Total Recoverable	Water	6020	372369
400-144551-28	SGWC-22	Total Recoverable	Water	6020	372369
400-144551-29	FD-3(AP)	Total Recoverable	Water	6020	372369
400-144551-30	SGWC-8	Total Recoverable	Water	6020	372369
400-144551-31	SGWC-9	Total Recoverable	Water	6020	372369
400-144551-32	EB-3(AP)	Total Recoverable	Water	6020	372369
400-144551-33	SGWC-10	Total Recoverable	Water	6020	372369
400-144551-34 - DL	SGWC-18	Total Recoverable	Water	6020	372369
MB 400-372369/1-A ^5	Method Blank	Total Recoverable	Water	6020	372369
LCS 400-372369/2-A	Lab Control Sample	Total Recoverable	Water	6020	372369
400-144712-J-4-E MS ^5	Matrix Spike	Total Recoverable	Water	6020	372369
400-144712-J-4-F MSD ^5	Matrix Spike Duplicate	Total Recoverable	Water	6020	372369

General Chemistry

Analysis Batch: 371893

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-144551-5	FD-1(AP)	Total/NA	Water	SM 2540C	
MB 400-371893/1	Method Blank	Total/NA	Water	SM 2540C	
LCS 400-371893/2	Lab Control Sample	Total/NA	Water	SM 2540C	
400-144480-A-1 DU	Duplicate	Total/NA	Water	SM 2540C	

Analysis Batch: 371972

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-144551-1	SGWA-1	Total/NA	Water	SM 2540C	
400-144551-2	SGWA-2	Total/NA	Water	SM 2540C	
MB 400-371972/1	Method Blank	Total/NA	Water	SM 2540C	
LCS 400-371972/2	Lab Control Sample	Total/NA	Water	SM 2540C	
400-144530-A-1 DU	Duplicate	Total/NA	Water	SM 2540C	

Analysis Batch: 371996

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-144551-3	SGWA-24	Total/NA	Water	SM 2540C	
400-144551-4	EB-1(AP)	Total/NA	Water	SM 2540C	
400-144551-6	FB-1(AP)	Total/NA	Water	SM 2540C	
400-144551-11	FD-2(AP)	Total/NA	Water	SM 2540C	
MB 400-371996/1	Method Blank	Total/NA	Water	SM 2540C	

TestAmerica Pensacola

QC Association Summary

Client: Southern Company
Project/Site: CCR - Plant Scherer

TestAmerica Job ID: 400-144551-1
SDG: Plant Scherer Ash Pond App III

General Chemistry (Continued)

Analysis Batch: 371996 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCS 400-371996/2	Lab Control Sample	Total/NA	Water	SM 2540C	
400-144551-3 DU	SGWA-24	Total/NA	Water	SM 2540C	

Analysis Batch: 372343

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-144551-7	SGWA-4	Total/NA	Water	SM 2540C	
400-144551-8	SGWA-3	Total/NA	Water	SM 2540C	
400-144551-9	SGWA-5	Total/NA	Water	SM 2540C	
400-144551-10	EB-2(AP)	Total/NA	Water	SM 2540C	
400-144551-12	FB-2(AP)	Total/NA	Water	SM 2540C	
400-144551-13	SGWC-14	Total/NA	Water	SM 2540C	
400-144551-14	SGWC-6	Total/NA	Water	SM 2540C	
400-144551-15	SGWC-13	Total/NA	Water	SM 2540C	
400-144551-16	SGWC-12	Total/NA	Water	SM 2540C	
400-144551-17	SGWC-11	Total/NA	Water	SM 2540C	
400-144551-18	SGWA-25	Total/NA	Water	SM 2540C	
400-144551-19	SGWC-7	Total/NA	Water	SM 2540C	
400-144551-29	FD-3(AP)	Total/NA	Water	SM 2540C	
MB 400-372343/1	Method Blank	Total/NA	Water	SM 2540C	
LCS 400-372343/2	Lab Control Sample	Total/NA	Water	SM 2540C	
400-144551-15 DU	SGWC-13	Total/NA	Water	SM 2540C	

Analysis Batch: 372515

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-144551-20	SGWC-23	Total/NA	Water	SM 2540C	
400-144551-21	SGWC-17	Total/NA	Water	SM 2540C	
400-144551-22	SGWC-16	Total/NA	Water	SM 2540C	
400-144551-23	SGWC-15	Total/NA	Water	SM 2540C	
400-144551-24	FB-3(AP)	Total/NA	Water	SM 2540C	
400-144551-25	SGWC-19	Total/NA	Water	SM 2540C	
400-144551-26	SGWC-20	Total/NA	Water	SM 2540C	
400-144551-27	SGWC-21	Total/NA	Water	SM 2540C	
400-144551-28	SGWC-22	Total/NA	Water	SM 2540C	
MB 400-372515/1	Method Blank	Total/NA	Water	SM 2540C	
LCS 400-372515/2	Lab Control Sample	Total/NA	Water	SM 2540C	
400-144551-20 DU	SGWC-23	Total/NA	Water	SM 2540C	

Analysis Batch: 372516

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-144551-30	SGWC-8	Total/NA	Water	SM 2540C	
400-144551-31	SGWC-9	Total/NA	Water	SM 2540C	
400-144551-32	EB-3(AP)	Total/NA	Water	SM 2540C	
400-144551-33	SGWC-10	Total/NA	Water	SM 2540C	
400-144551-34	SGWC-18	Total/NA	Water	SM 2540C	
MB 400-372516/1	Method Blank	Total/NA	Water	SM 2540C	
LCS 400-372516/2	Lab Control Sample	Total/NA	Water	SM 2540C	
400-144551-30 DU	SGWC-8	Total/NA	Water	SM 2540C	

QC Sample Results

Client: Southern Company
Project/Site: CCR - Plant Scherer

TestAmerica Job ID: 400-144551-1
SDG: Plant Scherer Ash Pond App III

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 400-372791/4
Matrix: Water
Analysis Batch: 372791

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<0.89		1.0	0.89	mg/L			10/21/17 15:19	1
Fluoride	<0.082		0.20	0.082	mg/L			10/21/17 15:19	1
Sulfate	<0.70		1.0	0.70	mg/L			10/21/17 15:19	1

Lab Sample ID: LCS 400-372791/5
Matrix: Water
Analysis Batch: 372791

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloride	10.0	10.1		mg/L		101	90 - 110
Fluoride	10.0	10.6		mg/L		106	90 - 110
Sulfate	10.0	10.8		mg/L		108	90 - 110

Lab Sample ID: LCSD 400-372791/6
Matrix: Water
Analysis Batch: 372791

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
Chloride	10.0	10.1		mg/L		101	90 - 110	0	15
Fluoride	10.0	10.4		mg/L		104	90 - 110	2	15
Sulfate	10.0	10.9		mg/L		109	90 - 110	1	15

Lab Sample ID: 400-144550-A-17 MS
Matrix: Water
Analysis Batch: 372791

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	1.2		10.0	10.9		mg/L		97	80 - 120
Fluoride	0.28		10.0	10.9		mg/L		106	80 - 120
Sulfate	6.1		10.0	17.3		mg/L		112	80 - 120

Lab Sample ID: 400-144550-A-17 MSD
Matrix: Water
Analysis Batch: 372791

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	1.2		10.0	10.9		mg/L		97	80 - 120	0	20
Fluoride	0.28		10.0	10.7		mg/L		104	80 - 120	2	20
Sulfate	6.1		10.0	17.3		mg/L		112	80 - 120	0	20

Lab Sample ID: MB 400-372851/36
Matrix: Water
Analysis Batch: 372851

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<0.89		1.0	0.89	mg/L			10/22/17 03:30	1
Fluoride	<0.082		0.20	0.082	mg/L			10/22/17 03:30	1
Sulfate	<0.70		1.0	0.70	mg/L			10/22/17 03:30	1

TestAmerica Pensacola

QC Sample Results

Client: Southern Company
Project/Site: CCR - Plant Scherer

TestAmerica Job ID: 400-144551-1
SDG: Plant Scherer Ash Pond App III

Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: LCS 400-372851/37
Matrix: Water
Analysis Batch: 372851

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloride	10.0	10.1		mg/L		101	90 - 110
Fluoride	10.0	10.6		mg/L		106	90 - 110
Sulfate	10.0	10.8		mg/L		108	90 - 110

Lab Sample ID: LCSD 400-372851/38
Matrix: Water
Analysis Batch: 372851

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
Chloride	10.0	10.0		mg/L		100	90 - 110	1	15
Fluoride	10.0	10.6		mg/L		106	90 - 110	0	15
Sulfate	10.0	10.8		mg/L		108	90 - 110	1	15

Lab Sample ID: 400-144551-12 MS
Matrix: Water
Analysis Batch: 372851

Client Sample ID: FB-2(AP)
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloride	<0.89		10.0	9.22		mg/L		92	80 - 120
Fluoride	<0.082		10.0	10.5		mg/L		105	80 - 120
Sulfate	<0.70		10.0	10.6		mg/L		106	80 - 120

Lab Sample ID: 400-144551-12 MSD
Matrix: Water
Analysis Batch: 372851

Client Sample ID: FB-2(AP)
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Chloride	<0.89		10.0	9.21		mg/L		92	80 - 120	0	20
Fluoride	<0.082		10.0	10.5		mg/L		105	80 - 120	0	20
Sulfate	<0.70		10.0	10.6		mg/L		106	80 - 120	0	20

Lab Sample ID: MB 400-372924/4
Matrix: Water
Analysis Batch: 372924

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<0.89		1.0	0.89	mg/L			10/23/17 10:31	1
Fluoride	<0.082		0.20	0.082	mg/L			10/23/17 10:31	1
Sulfate	<0.70		1.0	0.70	mg/L			10/23/17 10:31	1

Lab Sample ID: LCS 400-372924/5
Matrix: Water
Analysis Batch: 372924

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloride	10.0	9.98		mg/L		100	90 - 110
Fluoride	10.0	10.5		mg/L		105	90 - 110
Sulfate	10.0	10.7		mg/L		107	90 - 110

TestAmerica Pensacola

QC Sample Results

Client: Southern Company
Project/Site: CCR - Plant Scherer

TestAmerica Job ID: 400-144551-1
SDG: Plant Scherer Ash Pond App III

Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: LCSD 400-372924/6
Matrix: Water
Analysis Batch: 372924

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
Chloride	10.0	10.1		mg/L		101	90 - 110	1	15
Fluoride	10.0	10.4		mg/L		104	90 - 110	1	15
Sulfate	10.0	10.8		mg/L		108	90 - 110	1	15

Lab Sample ID: 400-144551-31 MS
Matrix: Water
Analysis Batch: 372924

Client Sample ID: SGWC-9
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Chloride	11		10.0	20.0		mg/L		93	80 - 120		
Fluoride	<0.082		10.0	10.7		mg/L		107	80 - 120		
Sulfate	300	E	10.0	314	E 4	mg/L		143	80 - 120		

Lab Sample ID: 400-144551-31 MSD
Matrix: Water
Analysis Batch: 372924

Client Sample ID: SGWC-9
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Chloride	11		10.0	20.1		mg/L		94	80 - 120	1	20
Fluoride	<0.082		10.0	10.6		mg/L		106	80 - 120	1	20
Sulfate	300	E	10.0	317	E 4	mg/L		173	80 - 120	1	20

Method: 6020 - Metals (ICP/MS)

Lab Sample ID: MB 400-372027/1-A ^5
Matrix: Water
Analysis Batch: 372482

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 372027

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Boron	<0.021		0.050	0.021	mg/L		10/16/17 12:49	10/18/17 20:38	5
Calcium	<0.13		0.25	0.13	mg/L		10/16/17 12:49	10/18/17 20:38	5

Lab Sample ID: LCS 400-372027/2-A
Matrix: Water
Analysis Batch: 372482

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 372027

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Boron	0.100	0.100		mg/L		100	80 - 120		
Calcium	5.00	5.19		mg/L		104	80 - 120		

Lab Sample ID: 400-144550-B-12-B MS ^5
Matrix: Water
Analysis Batch: 372482

Client Sample ID: Matrix Spike
Prep Type: Total Recoverable
Prep Batch: 372027

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Boron	<0.021		0.100	0.120		mg/L		120	75 - 125		
Calcium	10		5.00	15.4		mg/L		106	75 - 125		

TestAmerica Pensacola

QC Sample Results

Client: Southern Company
Project/Site: CCR - Plant Scherer

TestAmerica Job ID: 400-144551-1
SDG: Plant Scherer Ash Pond App III

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

Lab Sample ID: 400-144550-B-12-C MSD ^5

Matrix: Water
Analysis Batch: 372482

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total Recoverable
Prep Batch: 372027

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD		Unit	D	%Rec	%Rec.		RPD	Limit
				Result	Qualifier				Limits	RPD		
Boron	<0.021		0.100	0.113		mg/L		113	75 - 125	6	20	
Calcium	10		5.00	15.5		mg/L		108	75 - 125	1	20	

Lab Sample ID: MB 400-372032/1-A ^5

Matrix: Water
Analysis Batch: 372482

Client Sample ID: Method Blank

Prep Type: Total Recoverable
Prep Batch: 372032

Analyte	MB MB		RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Boron	<0.021		0.050	0.021	mg/L		10/16/17 13:36	10/18/17 23:29	5
Calcium	<0.13		0.25	0.13	mg/L		10/16/17 13:36	10/18/17 23:29	5

Lab Sample ID: LCS 400-372032/2-A

Matrix: Water
Analysis Batch: 372482

Client Sample ID: Lab Control Sample

Prep Type: Total Recoverable
Prep Batch: 372032

Analyte	Spike Added	LCS LCS		Unit	D	%Rec	%Rec.	
		Result	Qualifier				Limits	
Boron	0.100	0.102		mg/L		102	80 - 120	
Calcium	5.00	5.16		mg/L		103	80 - 120	

Lab Sample ID: 400-144551-7 MS

Matrix: Water
Analysis Batch: 372482

Client Sample ID: SGWA-4

Prep Type: Total Recoverable
Prep Batch: 372032

Analyte	Sample Result	Sample Qualifier	Spike Added	MS MS		Unit	D	%Rec	%Rec.	
				Result	Qualifier				Limits	
Boron	<0.021		0.100	0.110		mg/L		110	75 - 125	
Calcium	19		5.00	24.3		mg/L		103	75 - 125	

Lab Sample ID: 400-144551-7 MSD

Matrix: Water
Analysis Batch: 372482

Client Sample ID: SGWA-4

Prep Type: Total Recoverable
Prep Batch: 372032

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD MSD		Unit	D	%Rec	%Rec.		RPD	Limit
				Result	Qualifier				Limits	RPD		
Boron	<0.021		0.100	0.113		mg/L		113	75 - 125	2	20	
Calcium	19		5.00	24.5		mg/L		105	75 - 125	0	20	

Lab Sample ID: MB 400-372369/1-A ^5

Matrix: Water
Analysis Batch: 372643

Client Sample ID: Method Blank

Prep Type: Total Recoverable
Prep Batch: 372369

Analyte	MB MB		RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Boron	<0.021		0.050	0.021	mg/L		10/18/17 14:26	10/19/17 16:11	5
Calcium	<0.13		0.25	0.13	mg/L		10/18/17 14:26	10/19/17 16:11	5

Lab Sample ID: LCS 400-372369/2-A

Matrix: Water
Analysis Batch: 372643

Client Sample ID: Lab Control Sample

Prep Type: Total Recoverable
Prep Batch: 372369

Analyte	Spike Added	LCS LCS		Unit	D	%Rec	%Rec.	
		Result	Qualifier				Limits	
Boron	0.100	0.0980		mg/L		98	80 - 120	

TestAmerica Pensacola

QC Sample Results

Client: Southern Company
Project/Site: CCR - Plant Scherer

TestAmerica Job ID: 400-144551-1
SDG: Plant Scherer Ash Pond App III

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

Lab Sample ID: LCS 400-372369/2-A
Matrix: Water
Analysis Batch: 372643

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 372369

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Calcium	5.00	5.11		mg/L		102	80 - 120

Lab Sample ID: 400-144712-J-4-E MS ^5
Matrix: Water
Analysis Batch: 372643

Client Sample ID: Matrix Spike
Prep Type: Total Recoverable
Prep Batch: 372369

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Boron	<0.021		0.100	0.123		mg/L		123	75 - 125
Calcium	3.3		5.00	8.33		mg/L		100	75 - 125

Lab Sample ID: 400-144712-J-4-F MSD ^5
Matrix: Water
Analysis Batch: 372643

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total Recoverable
Prep Batch: 372369

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Boron	<0.021		0.100	0.121		mg/L		121	75 - 125	1	20
Calcium	3.3		5.00	8.51		mg/L		103	75 - 125	2	20

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

Lab Sample ID: MB 400-371893/1
Matrix: Water
Analysis Batch: 371893

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	<3.4		5.0	3.4	mg/L			10/14/17 14:50	1

Lab Sample ID: LCS 400-371893/2
Matrix: Water
Analysis Batch: 371893

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	290		mg/L		99	78 - 122

Lab Sample ID: 400-144480-A-1 DU
Matrix: Water
Analysis Batch: 371893

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	230		234		mg/L		0	5

Lab Sample ID: MB 400-371972/1
Matrix: Water
Analysis Batch: 371972

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	<3.4		5.0	3.4	mg/L			10/16/17 13:07	1

TestAmerica Pensacola

QC Sample Results

Client: Southern Company
Project/Site: CCR - Plant Scherer

TestAmerica Job ID: 400-144551-1
SDG: Plant Scherer Ash Pond App III

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

Lab Sample ID: LCS 400-371972/2
Matrix: Water
Analysis Batch: 371972

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: 400-144530-A-1 DU
Matrix: Water
Analysis Batch: 371972

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	300		304		mg/L		0	5

Lab Sample ID: MB 400-371996/1
Matrix: Water
Analysis Batch: 371996

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	<3.4		5.0	3.4	mg/L			10/16/17 16:03	1

Lab Sample ID: LCS 400-371996/2
Matrix: Water
Analysis Batch: 371996

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	252		mg/L		86	78 - 122

Lab Sample ID: 400-144551-3 DU
Matrix: Water
Analysis Batch: 371996

Client Sample ID: SGWA-24
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Total Dissolved Solids	110		106		mg/L		0	5

Lab Sample ID: MB 400-372343/1
Matrix: Water
Analysis Batch: 372343

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	<3.4		5.0	3.4	mg/L			10/18/17 13:49	1

Lab Sample ID: LCS 400-372343/2
Matrix: Water
Analysis Batch: 372343

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	284		mg/L		97	78 - 122

Lab Sample ID: 400-144551-15 DU
Matrix: Water
Analysis Batch: 372343

Client Sample ID: SGWC-13
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Total Dissolved Solids	170		172		mg/L		0	5

TestAmerica Pensacola

QC Sample Results

Client: Southern Company
Project/Site: CCR - Plant Scherer

TestAmerica Job ID: 400-144551-1
SDG: Plant Scherer Ash Pond App III

Lab Sample ID: MB 400-372515/1
Matrix: Water
Analysis Batch: 372515

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	<3.4		5.0	3.4	mg/L			10/19/17 13:14	1

Lab Sample ID: LCS 400-372515/2
Matrix: Water
Analysis Batch: 372515

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: 400-144551-20 DU
Matrix: Water
Analysis Batch: 372515

Client Sample ID: SGWC-23
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Total Dissolved Solids	280		280		mg/L		0.7	5

Lab Sample ID: MB 400-372516/1
Matrix: Water
Analysis Batch: 372516

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	<3.4		5.0	3.4	mg/L			10/19/17 16:01	1

Lab Sample ID: LCS 400-372516/2
Matrix: Water
Analysis Batch: 372516

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	276		mg/L		94	78 - 122

Lab Sample ID: 400-144551-30 DU
Matrix: Water
Analysis Batch: 372516


Client Sample ID: SGWC-8
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Total Dissolved Solids	400		396		mg/L		0	5

Chain of Custody Record

Client Information		Samp/er: Ben Hodges		Lab PM: Whitmire, Cheyenne R		Carrier Tracking No(s): 400-68569-27833.6		COC No: 400-68569-27833.6	
Client Contact: Joju Abraham		Phone: 912-258-7457		E-Mail: cheyenne.whitmire@testamericainc.com		Page: 1 of 1		Job #:	
Southern Company		Due Date Requested:		Analysis Requested		Total Number of Containers		Preservation Codes:	
Address: 241 Ralph McGill Blvd SE B10185		TAT Requested (days):		 400-144551 COC		M - Hexane N - None O - AsNaO2 P - Na2O4S Q - Na2SO3 R - Na2SO3 S - H2SO4 T - TSP Dodecahydrate U - Acetone V - MCAA W - pH 4-5 L - EDTA Z - other (specify)		Other:	
City: Atlanta		PO #: SCS10347656		Field Filtered Sample (Yes or No)		Perform MS/MSD (Yes or No)		Special Instructions/Note:	
State, Zip: GA, 30308		WO #: 40008128		N		N		6020 - Boron & Calcium	
Phone:		Project #: 40008128		D		D		2540C - Total Dissolved Solids, 300_ORGFM_28D-Fluoride, Chloride & Sulfate	
Email: JAbraham@southernco.com		SSOW#:		X		X		2	
Project Name: CCR - Plant Scherer App III		Site: Ash Pond		N		N		2	
Sample Identification		Sample Date		Sample Time		Sample Type (C=comp, G=grab)		Matrix (W=water, S=solid, O=waste/oli, BT=Tissue, A=Air)	
SGWA-1		10/10/17		1600		G		Water	
SGWA-2		10/10/17		1330		G		Water	
SGWA-24		10/10/17		1030		G		Water	
EB-1(AP)		10/10/17		1625		G		Water	
FD-1(AP)		10/10/17		--		G		Water	
FB-1(AP)		10/10/17		1020		G		Water	
Possible Hazard Identification		Sample Disposal		Sample Disposal		Sample Disposal		Sample Disposal	
<input type="checkbox"/> Non-Hazard <input type="checkbox"/> Flammable <input type="checkbox"/> Skin Irritant <input type="checkbox"/> Poison B <input type="checkbox"/> Unknown <input type="checkbox"/> Radiological		<input type="checkbox"/> Return To Client <input type="checkbox"/> Disposal By Lab <input type="checkbox"/> Archive For		<input type="checkbox"/> Return To Client <input type="checkbox"/> Disposal By Lab <input type="checkbox"/> Archive For		<input type="checkbox"/> Return To Client <input type="checkbox"/> Disposal By Lab <input type="checkbox"/> Archive For		<input type="checkbox"/> Return To Client <input type="checkbox"/> Disposal By Lab <input type="checkbox"/> Archive For	
Deliverable Requested: I, II, III, IV, Other (specify)		Empty Kit Relinquished by:		Date:		Time:		Method of Shipment:	
Ben Hodges		Date/Time: 10/11/17 0800		Date/Time: 10/11/17 0800		Date/Time: 10/11/17 0800		Date/Time: 10/11/17 0800	
Relinquished by: Ben Hodges		Date/Time: 10/11/17 1124		Date/Time: 10/11/17 1124		Date/Time: 10/11/17 1124		Date/Time: 10/11/17 1124	
Relinquished by: Ben Hodges		Date/Time: 10/11/17 1130		Date/Time: 10/11/17 1130		Date/Time: 10/11/17 1130		Date/Time: 10/11/17 1130	
Custody Seals Intact: <input type="checkbox"/> Yes <input type="checkbox"/> No		Custody Seal No.:		Cooler Temperature(s) °C and Other Remarks:		Cooler Temperature(s) °C and Other Remarks:		Cooler Temperature(s) °C and Other Remarks:	




Client Information		Sampler: Ben Hodges	Lab PM: Whitmire, Cheyenne R	Carrier Tracking No(s): 400-68569-27833.6	COC No: 400-68569-27833.6						
Client Contact: Joju Abraham		Phone: 912-258-7457	E-Mail: cheyenne.whitmire@testamericainc.com	Page: 1 of 2	Job #: 1 of 2						
Company: Southern Company		Analysis Requested									
Address: 241 Ralph McGill Blvd SE B10185		 <p>400-144551 COC</p>									
City: Atlanta											
State, Zip: GA, 30308											
Phone: SCS10347656											
Email: JAbraham@southernco.com											
Project Name: CCR - Plant Scherer App III		Due Date Requested: 10/11/17 TAT Requested (days): PO #: SCS10347656 WO #: 40008128 Project #: 40008128 Site: Ash Pond									
Sample Identification		Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water, S=solid, O=wastewater, BT=tissue, A=air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	2640C - Total Dissolved Solids, 300_ORGM_28D-Fluoride, Chloride & Sulfate	6020 - Boron & Calcium	Total Number of containers	Special Instructions/Note:
SGWA-4	10/11/17	1410	G	Water	N	X	X			2	
SGWA-3	10/11/17	1310	G	Water	N	X	X			2	
SGWA-5	10/11/17	1050	G	Water	N	X	X			2	
EB-2(AP)	10/11/17	1630	G	Water	N	X	X			2	
FD-2(AP)	10/11/17	-	G	Water	N	X	X			2	
FB-2(AP)	10/11/17	1110	G	Water	N	X	X			2	
SGWC-14	10/11/17	1550	G	Water	N	X	X			2	
SGWC-6	10/11/17	1510	G	Water	N	X	X			2	
SGWC-13	10/11/17	1425	G	Water	N	X	X			2	
SGWC-12	10/11/17	1315	G	Water	N	X	X			2	
SGWC-11	10/11/17	1130	G	Water	N	X	X			2	
Possible Hazard Identification <input type="checkbox"/> Non-Hazard <input type="checkbox"/> Flammable <input type="checkbox"/> Skin Irritant <input type="checkbox"/> Poison B <input type="checkbox"/> Unknown <input type="checkbox"/> Radiological											
Deliverable Requested: <input type="checkbox"/> I, II, IV, Other (specify)											
Empty Kit Relinquished by: _____ Date: _____											
Sample Disposal (A fee may be assessed if samples are retained longer than 1 month) <input type="checkbox"/> Return To Client <input type="checkbox"/> Disposal By Lab <input type="checkbox"/> Archive For _____ Months											
Special Instructions/QC Requirements:											
Method of Shipment: _____											
Ben Hodges		Date/Time: 10/12/17 0800	Company: Golden		Received by: T Elrod		Date/Time: 10-12-17 800	Company: C Now			
Relinquished by: Ben Hodges		Date/Time: 10-12-17 0800	Company: Golden		Received by: T Elrod		Date/Time: 10-12-17 940	Company: C Now			
Relinquished by: T Elrod		Date/Time: 10-12-17 941	Company: C Now		Received by: T Elrod		Date/Time: 10-12-17 940	Company: C Now			
Custody Seal No.:		Custody Seal No.:		Custody Seal No.:		Custody Seal No.:		Custody Seal No.:			
Δ Yes Δ No		Δ Yes Δ No		Δ Yes Δ No		Δ Yes Δ No		Δ Yes Δ No			



Chain of Custody Record

681-Atlanta

TestAmerica Pensacola
3355 McLemore Drive
Pensacola, FL 32514
Phone (850) 474-1001 Fax (850) 478-2671

Client Information Client Contact: Joju Abraham Company: Southern Company Address: 241 Ralph McGill Blvd SE B10185 City: Atlanta State, Zip: GA, 30308 Phone: [Redacted] Email: JAbraham@southernco.com Project Name: CCR - Plant Scherer App III Site: Ash Pond		Lab PM: Whitmire, Cheyenne R E-Mail: cheyenne.whitmire@testamericainc.com Carrier Tracking No(s): COC No: 400-68569-27833.6 Page: 1 of 2 Job #:	
Due Date Requested: TAT Requested (days): PO #: SCS10347656 WO #:		Analysis Requested  400-144551 COC	
Sample Date Sample Time Sample Type (C=Comp, G=grab) Matrix (W=water, S=solid, O=wastewater, BT=Tissue, A=Air) Preservation Code:		Field Filtered Sample (Yes or No) Perform MS/MSD (Yes or No) 2540C - Total Dissolved Solids, 300_ORGM_28D-Fluoride, 6020 - Boron & Calcium	
Sample Identification SGWC-23 SGWC-17 SGWC-16 SGWC-15 FB-3(AP) SGWC-19 SGWC-20 SGWC-21 SGWC-22 FD-3(AP) SGWC-8		Total Number of containers 2 2 2 2 2 2 2 2 2	
Possible Hazard Identification <input type="checkbox"/> Non-Hazard <input type="checkbox"/> Flammable <input type="checkbox"/> Skin Irritant <input type="checkbox"/> Poison B <input type="checkbox"/> Unknown <input type="checkbox"/> Radiological Deliverable Requested: I, II, III, IV, Other (specify)		Special Instructions/Note: Special Instructions/QC Requirements: Sample Disposal (A fee may be assessed if samples are retained longer than 1 month) <input type="checkbox"/> Return To Client <input type="checkbox"/> Disposal By Lab <input type="checkbox"/> Archive For _____ Months	
Empty Kit Relinquished by: Ben Hodges Relinquished by: Relinquished by:		Method of Shipment: Date/Time: 10-13-17 112 Date/Time: 10-13-17 0909 Date/Time:	
Custody Seals Intact: A Yes A No Custody Seal No.:		Cooler Temperature(s) °C and Other Remarks: 1.9°C, 3.0°C JR7	

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Login Sample Receipt Checklist

Client: Southern Company

Job Number: 400-144551-1
SDG Number: Plant Scherer Ash Pond App III

Login Number: 144551

List Number: 1

Creator: Perez, Trina M

List Source: TestAmerica Pensacola

Question	Answer	Comment
Radioactivity wasn't checked or is \leq background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	N/A	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	0.7°C IR-7; 2.3°C, 1.1°C IR-8; 1.9°C, 3.0°C IR-7
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 <math><6\text{mm}</math> (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: Southern Company
 Project/Site: CCR - Plant Scherer

TestAmerica Job ID: 400-144551-1
 SDG: Plant Scherer Ash Pond App III

Laboratory: TestAmerica Pensacola

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

Authority	Program	EPA Region	Identification Number	Expiration Date
Alabama	State Program	4	40150	06-30-18
Arizona	State Program	9	AZ0710	01-11-18
Arkansas DEQ	State Program	6	88-0689	09-01-18
California	ELAP	9	2510	03-31-18
Florida	NELAP	4	E81010	06-30-18
Georgia	State Program	4	N/A	06-30-18
Illinois	NELAP	5	200041	10-09-18
Iowa	State Program	7	367	08-01-18
Kansas	NELAP	7	E-10253	10-31-17
Kentucky (UST)	State Program	4	53	06-30-18
Kentucky (WW)	State Program	4	98030	12-31-17
L-A-B	ISO/IEC 17025		L2471	02-22-20
Louisiana	NELAP	6	30976	06-30-18
Louisiana (DW)	NELAP	6	LA170005	12-31-17
Maryland	State Program	3	233	09-30-18
Massachusetts	State Program	1	M-FL094	06-30-18
Michigan	State Program	5	9912	06-30-18
New Jersey	NELAP	2	FL006	06-30-18
North Carolina (WW/SW)	State Program	4	314	12-31-17
Oklahoma	State Program	6	9810	08-31-18
Pennsylvania	NELAP	3	68-00467	01-31-18
Rhode Island	State Program	1	LAO00307	12-30-17
South Carolina	State Program	4	96026	06-30-18
Tennessee	State Program	4	TN02907	06-30-18
Texas	NELAP	6	T104704286-17-12	09-30-18
USDA	Federal		P330-16-00172	05-24-19
Virginia	NELAP	3	460166	06-14-18
Washington	State Program	10	C915	05-15-18
West Virginia DEP	State Program	3	136	06-30-18



Product Name: Low-Flow System

Date: 2017-10-10 16:04:04

Project Information:

Operator Name K. Minkara
Company Name Golder
Project Name 1662350
Site Name Plant Scherer
Latitude 0° 0' 0"
Longitude 0° 0' 0"
Sonde SN 449622
Turbidity Make/Model LaMotte

Pump Information:

Pump Model/Type QED Well Wizard
Tubing Type polyethylene
Tubing Diameter .17 in
Tubing Length 44.60 ft

Pump placement from TOC 44.60 ft

Well Information:

Well ID SGWA-1
Well diameter 2 in
Well Total Depth 53.4 ft
Screen Length 10 ft
Depth to Water 43.46 ft

Pumping Information:

Final Pumping Rate 100 mL/min
Total System Volume 0.6840687 L
Calculated Sample Rate 300 sec
Stabilization Drawdown 2.64 in
Total Volume Pumped 24 L

Low-Flow Sampling Stabilization Summary

	Time	Elapsed	Temp C	pH	SpCond μ S/cm	Turb NTU	DTW ft	RDO mg/L	ORP mV
Stabilization			+/- 0.5	+/- 0.1	+/- 5%	+/- 10		+/- 10%	+/- 10
Last 5	15:36:09	4811.93	23.07	5.49	42.19	6.51	43.71	0.37	23.09
Last 5	15:41:09	5111.93	23.07	5.49	41.91	8.11	43.69	0.40	22.59
Last 5	15:46:09	5411.93	23.70	5.48	41.72	7.58	43.70	0.38	21.92
Last 5	15:51:09	5711.93	23.97	5.49	41.30	5.83	43.68	0.41	21.84
Last 5	15:56:13	6015.93	23.97	5.49	41.13	4.96	43.68	0.41	21.76
Variance 0			0.63	-0.01	-0.19			-0.01	-0.67
Variance 1			0.28	0.01	-0.42			0.02	-0.08
Variance 2			-0.00	-0.00	-0.17			-0.00	-0.08

Notes

Sampled SGWA-1 at 1600. 3 well volume purging. Changed purge rate from 300ml/min to 100ml/min after 70min.

Grab Samples

Product Name: Low-Flow System

Date: 2017-10-10 13:25:16

Project Information:

Operator Name K. Minkara
Company Name Golder
Project Name 1662350
Site Name Plant Scherer
Latitude 0° 0' 0"
Longitude 0° 0' 0"
Sonde SN 449622
Turbidity Make/Model LaMotte

Pump Information:

Pump Model/Type QED Well Wizard
Tubing Type polyethylene
Tubing Diameter .17 in
Tubing Length 91.05 ft

Pump placement from TOC 91.05 ft

Well Information:

Well ID SGWA-2
Well diameter 2 in
Well Total Depth 98.5 ft
Screen Length 10 ft
Depth to Water 43.48 ft

Pumping Information:

Final Pumping Rate 100 mL/min
Total System Volume 0.8913947 L
Calculated Sample Rate 300 sec
Stabilization Drawdown 11.64 in
Total Volume Pumped 4 L

Low-Flow Sampling Stabilization Summary

	Time	Elapsed	Temp C	pH	SpCond μ S/cm	Turb NTU	DTW ft	RDO mg/L	ORP mV
Stabilization			+/- 0.5	+/- 0.1	+/- 5%	+/- 10		+/- 10%	+/- 10
Last 5	13:02:36	1200.02	23.68	6.88	123.80	0.86	44.34	3.72	26.53
Last 5	13:07:36	1500.03	23.71	6.88	124.48	0.78	44.44	3.95	25.95
Last 5	13:12:36	1800.03	23.12	6.88	124.43	0.68	44.45	3.95	25.77
Last 5	13:17:36	2100.02	23.48	6.87	124.41	0.64	44.45	3.93	25.37
Last 5	13:22:36	2400.02	23.34	6.87	124.45	0.73	44.45	3.96	25.49
Variance 0			-0.59	-0.00	-0.05			0.00	-0.18
Variance 1			0.36	-0.01	-0.02			-0.02	-0.40
Variance 2			-0.14	-0.00	0.04			0.04	0.13

Notes

Sampled SGWA-2 at 1330

Grab Samples

Product Name: Low-Flow System

Date: 2017-10-11 13:08:08

Project Information:

Operator Name B. Hodges
Company Name Golder
Project Name 1662350
Site Name Plant Scherer
Latitude 0° 0' 0"
Longitude 0° 0' 0"
Sonde SN 364452
Turbidity Make/Model LaMotte

Pump Information:

Pump Model/Type QED Well Wizard
Tubing Type polyethylene
Tubing Diameter .17 in
Tubing Length 44.4 ft

Pump placement from TOC 44.4 ft

Well Information:

Well ID SGWA-3
Well diameter 2 in
Well Total Depth 52.8 ft
Screen Length 10 ft
Depth to Water 36.50 ft

Pumping Information:

Final Pumping Rate 120 mL/min
Total System Volume 0.683176 L
Calculated Sample Rate 300 sec
Stabilization Drawdown 33.48 in
Total Volume Pumped 4.2 L

Low-Flow Sampling Stabilization Summary

	Time	Elapsed	Temp C	pH	SpCond μ S/cm	Turb NTU	DTW ft	RDO mg/L	ORP mV
Stabilization			+/- 0.5	+/- 0.1	+/- 5%	+/- 10		+/- 10%	+/- 10
Last 5	12:46:40	900.02	22.48	5.65	73.92	0.58	38.53	2.18	50.01
Last 5	12:51:40	1200.02	22.71	5.64	73.66	0.25	38.85	1.87	49.04
Last 5	12:56:40	1500.02	22.46	5.63	73.94	0.15	39.19	1.82	50.94
Last 5	13:01:40	1800.02	22.98	5.64	74.70	0.22	39.25	1.85	48.68
Last 5	13:06:40	2100.93	23.01	5.63	75.65	0.27	39.29	1.93	50.12
Variance 0			-0.25	-0.01	0.27			-0.05	1.90
Variance 1			0.52	0.02	0.76			0.04	-2.27
Variance 2			0.03	-0.02	0.95			0.08	1.45

Notes

Sampled at 1350

Grab Samples

Product Name: Low-Flow System

Date: 2017-10-11 14:12:46

Project Information:

Operator Name B. Hodges
Company Name Golder
Project Name 1662350
Site Name Plant Scherer
Latitude 0° 0' 0"
Longitude 0° 0' 0"
Sonde SN 364452
Turbidity Make/Model LaMotte

Pump Information:

Pump Model/Type QED Well Wizard
Tubing Type polyethylene
Tubing Diameter .17 in
Tubing Length 54.80 ft

Pump placement from TOC 54.80 ft

Well Information:

Well ID SGWA-4
Well diameter 2 in
Well Total Depth 63.2 ft
Screen Length 10 ft
Depth to Water 50.57 ft

Pumping Information:

Final Pumping Rate 120 mL/min
Total System Volume 0.7295956 L
Calculated Sample Rate 300 sec
Stabilization Drawdown 25.92 in
Total Volume Pumped 3.6 L

Low-Flow Sampling Stabilization Summary

	Time	Elapsed	Temp C +/- 0.5	pH +/- 0.1	SpCond μ S/cm +/- 5%	Turb NTU +/- 10	DTW ft	RDO mg/L +/- 10%	ORP mV +/- 10
Stabilization									
Last 5	13:49:34	600.02	22.80	6.57	177.25	0.28	51.89	5.87	60.11
Last 5	13:54:34	900.02	22.18	6.45	173.74	0.16	52.25	4.70	59.71
Last 5	13:59:34	1200.02	22.13	6.41	171.62	0.08	52.49	3.96	58.52
Last 5	14:04:34	1500.02	22.09	6.40	174.90	0.12	52.69	3.77	59.46
Last 5	14:09:34	1800.02	22.21	6.42	173.63	0.12	52.73	3.77	58.56
Variance 0			-0.04	-0.04	-2.12			-0.74	-1.20
Variance 1			-0.05	-0.01	3.28			-0.19	0.94
Variance 2			0.12	0.02	-1.27			-0.01	-0.90

Notes

Sampled at 1410

Grab Samples

Product Name: Low-Flow System

Date: 2017-10-11 10:48:27

Project Information:

Operator Name B. Hodges
Company Name Golder
Project Name 1662350
Site Name Plant Scherer
Latitude 0° 0' 0"
Longitude 0° 0' 0"
Sonde SN 364452
Turbidity Make/Model LaMotte

Pump Information:

Pump Model/Type QED Well Wizard
Tubing Type polyethylene
Tubing Diameter .17 in
Tubing Length 24.36 ft

Pump placement from TOC 24.36 ft

Well Information:

Well ID SGWA-5
Well diameter 2 in
Well Total Depth 33.1 ft
Screen Length 10 ft
Depth to Water 18.96 ft

Pumping Information:

Final Pumping Rate 120 mL/min
Total System Volume 0.593729 L
Calculated Sample Rate 300 sec
Stabilization Drawdown 4.08 in
Total Volume Pumped 3 L

Low-Flow Sampling Stabilization Summary

	Time	Elapsed	Temp C	pH	SpCond μ S/cm	Turb NTU	DTW ft	RDO mg/L	ORP mV
Stabilization			+/- 0.5	+/- 0.1	+/- 5%	+/- 10		+/- 10%	+/- 10
Last 5	10:27:22	300.49	22.28	5.47	54.23	0.22	19.34	4.75	65.00
Last 5	10:32:22	600.48	22.37	5.50	55.03	0.03	19.31	3.87	49.39
Last 5	10:37:22	900.48	22.40	5.47	55.07	0.17	19.30	3.31	44.22
Last 5	10:42:22	1200.48	22.19	5.43	55.25	0.29	19.30	3.22	50.89
Last 5	10:47:22	1500.49	22.40	5.43	54.45	0.21	19.30	3.11	41.76
Variance 0			0.03	-0.03	0.04			-0.55	-5.18
Variance 1			-0.21	-0.04	0.18			-0.09	6.68
Variance 2			0.21	0.00	-0.80			-0.10	-9.13

Notes

Sampled at 1050

Grab Samples

Product Name: Low-Flow System

Date: 2017-10-11 15:09:30

Project Information:

Operator Name B. Hodges
Company Name Golder
Project Name 1662350
Site Name Plant Scherer
Latitude 0° 0' 0"
Longitude 0° 0' 0"
Sonde SN 364452
Turbidity Make/Model LaMotte

Pump Information:

Pump Model/Type QED Well Wizard
Tubing Type polyethylene
Tubing Diameter .17 in
Tubing Length 19.21 ft

Pump placement from TOC 19.21 ft

Well Information:

Well ID SGWC-6
Well diameter 2 in
Well Total Depth 27.6 ft
Screen Length 10 ft
Depth to Water 15.85 ft

Pumping Information:

Final Pumping Rate 120 mL/min
Total System Volume 0.5707424 L
Calculated Sample Rate 300 sec
Stabilization Drawdown 16.44 in
Total Volume Pumped 3 L

Low-Flow Sampling Stabilization Summary

	Time	Elapsed	Temp C	pH	SpCond μ S/cm	Turb NTU	DTW ft	RDO mg/L	ORP mV
Stabilization			+/- 0.5	+/- 0.1	+/- 5%	+/- 10		+/- 10%	+/- 10
Last 5	14:47:55	300.02	23.31	6.27	90.33	0.36	16.65	4.18	52.34
Last 5	14:52:55	600.02	23.56	6.14	86.66	0.48	16.88	1.69	45.05
Last 5	14:57:55	900.17	23.58	6.07	85.99	0.53	17.09	0.97	45.17
Last 5	15:02:55	1200.17	23.45	6.07	86.32	0.60	17.19	0.77	44.58
Last 5	15:07:55	1500.17	23.75	6.09	87.72	0.60	17.22	0.80	43.36
Variance 0			0.01	-0.07	-0.67			-0.72	0.11
Variance 1			-0.13	0.00	0.32			-0.20	-0.58
Variance 2			0.30	0.02	1.41			0.03	-1.22

Notes

Sampled at 1510

Grab Samples

Product Name: Low-Flow System

Date: 2017-10-11 16:16:30

Project Information:

Operator Name D.Thomas
Company Name Golder Associates
Project Name 1662350
Site Name Plant Scherer
Latitude 0° 0' 0"
Longitude 0° 0' 0"
Sonde SN 463068
Turbidity Make/Model Lamotte

Pump Information:

Pump Model/Type QED Well Wizard
Tubing Type poly
Tubing Diameter .170 in
Tubing Length 29.75 ft

Pump placement from TOC 29.75 ft

Well Information:

Well ID SGWC-7
Well diameter 2 in
Well Total Depth 37.7 ft
Screen Length 10 ft
Depth to Water 14.7 ft

Pumping Information:

Final Pumping Rate 150 mL/min
Total System Volume 0.6177869 L
Calculated Sample Rate 300 sec
Stabilization Drawdown 2.4 in
Total Volume Pumped 4.5 L

Low-Flow Sampling Stabilization Summary

	Time	Elapsed	Temp C	pH	SpCond μ S/cm	Turb NTU	DTW ft	RDO mg/L	ORP mV
Stabilization			+/- 0.5	+/- 0.1	+/- 5%	+/- 10		+/- 10%	+/- 10
Last 5	15:52:55	600.01	21.52	6.38	346.42	0.15	14.90	0.25	51.23
Last 5	15:57:55	900.03	21.59	6.39	340.50	0.15	14.90	0.20	47.41
Last 5	16:02:55	1200.03	21.64	6.39	334.31	0.07	14.90	0.19	43.93
Last 5	16:07:55	1500.03	21.64	6.39	327.81	0.15	14.90	0.19	40.40
Last 5	16:12:55	1800.03	21.55	6.40	323.29	0.03	14.90	0.20	37.40
Variance 0			0.05	-0.01	-6.19			-0.01	-3.48
Variance 1			0.01	0.01	-6.49			0.01	-3.53
Variance 2			-0.09	0.01	-4.52			0.01	-3.00

Notes

Began purging at 1542
Stopped purging and began sampling at 1612

Grab Samples

Product Name: Low-Flow System

Date: 2017-10-12 10:33:24

Project Information:

Operator Name B. Hodges
Company Name Golder
Project Name 1662350
Site Name Plant Scherer
Latitude 0° 0' 0"
Longitude 0° 0' 0"
Sonde SN 364452
Turbidity Make/Model LaMotte

Pump Information:

Pump Model/Type QED Well Wizard
Tubing Type polyethylene
Tubing Diameter .17 in
Tubing Length 34.2 ft

Pump placement from TOC 34.2 ft

Well Information:

Well ID SGWC-8
Well diameter 2 in
Well Total Depth 42.6 ft
Screen Length 10 ft
Depth to Water 22.89 ft

Pumping Information:

Final Pumping Rate 120 mL/min
Total System Volume 0.6376491 L
Calculated Sample Rate 300 sec
Stabilization Drawdown 1.44 in
Total Volume Pumped 3 L

Low-Flow Sampling Stabilization Summary

	Time	Elapsed	Temp C	pH	SpCond μ S/cm	Turb NTU	DTW ft	RDO mg/L	ORP mV
Stabilization			+/- 0.5	+/- 0.1	+/- 5%	+/- 10		+/- 10%	+/- 10
Last 5	10:12:39	300.09	21.71	6.59	560.02	0.12	23.01	3.23	42.94
Last 5	10:17:39	600.07	21.20	6.42	561.54	0.05	23.01	2.22	43.44
Last 5	10:22:39	900.03	21.17	6.42	560.38	0.22	23.01	2.02	42.48
Last 5	10:27:39	1200.02	21.81	6.42	575.90	0.21	23.01	1.92	41.71
Last 5	10:32:39	1500.02	22.31	6.41	554.68	0.03	23.01	1.87	41.31
Variance 0			-0.02	-0.01	-1.15			-0.20	-0.96
Variance 1			0.64	0.00	15.52			-0.11	-0.77
Variance 2			0.50	-0.01	-21.22			-0.05	-0.40

Notes

Sampled at 1035

Grab Samples

Product Name: Low-Flow System

Date: 2017-10-12 14:10:49

Project Information:

Operator Name B. Hodges
Company Name Golder
Project Name 1662350
Site Name Plant Scherer
Latitude 0° 0' 0"
Longitude 0° 0' 0"
Sonde SN 497259
Turbidity Make/Model LaMotte

Pump Information:

Pump Model/Type QED Well Wizard
Tubing Type polyethylene
Tubing Diameter .17 in
Tubing Length 29.4 ft

Pump placement from TOC 29.4 ft

Well Information:

Well ID SGWC-9
Well diameter 2 in
Well Total Depth 37.8 ft
Screen Length 10 ft
Depth to Water 21.25 ft

Pumping Information:

Final Pumping Rate 120 mL/min
Total System Volume 0.6162246 L
Calculated Sample Rate 300 sec
Stabilization Drawdown 6.72 in
Total Volume Pumped 3 L

Low-Flow Sampling Stabilization Summary

	Time	Elapsed	Temp C	pH	SpCond μ S/cm	Turb NTU	DTW ft	RDO mg/L	ORP mV
Stabilization			+/- 0.5	+/- 0.1	+/- 5%	+/- 10		+/- 10%	+/- 10
Last 5	13:49:49	300.02	23.38	6.32	767.79	3.94	21.70	2.38	28.68
Last 5	13:54:49	600.02	22.21	6.18	783.76	3.72	21.75	0.81	26.18
Last 5	13:59:49	900.02	22.01	6.17	781.08	4.39	21.80	0.56	22.16
Last 5	14:04:49	1200.02	21.59	6.17	776.54	4.20	21.81	0.49	19.35
Last 5	14:09:49	1500.02	21.68	6.16	775.84	3.68	21.81	0.50	17.28
Variance 0			-0.20	-0.01	-2.67			-0.25	-4.02
Variance 1			-0.41	0.00	-4.54			-0.07	-2.81
Variance 2			0.08	-0.00	-0.70			0.00	-2.07

Notes

Sampled at 1410

Grab Samples

Product Name: Low-Flow System

Date: 2017-10-12 11:26:53

Project Information:

Operator Name B. Hodges
Company Name Golder
Project Name 1662350
Site Name Plant Scherer
Latitude 0° 0' 0"
Longitude 0° 0' 0"
Sonde SN 364452
Turbidity Make/Model LaMotte

Pump Information:

Pump Model/Type QED Well Wizard
Tubing Type polyethylene
Tubing Diameter .17 in
Tubing Length 24.2 ft

Pump placement from TOC 24.2 ft

Well Information:

Well ID SGWC-10
Well diameter 2 in
Well Total Depth 32.6 ft
Screen Length 10 ft
Depth to Water 17.80 ft

Pumping Information:

Final Pumping Rate 120 mL/min
Total System Volume 0.5930148 L
Calculated Sample Rate 300 sec
Stabilization Drawdown 13.68 in
Total Volume Pumped 3 L

Low-Flow Sampling Stabilization Summary

	Time	Elapsed	Temp C	pH	SpCond μ S/cm	Turb NTU	DTW ft	RDO mg/L	ORP mV
Stabilization			+/- 0.5	+/- 0.1	+/- 5%	+/- 10		+/- 10%	+/- 10
Last 5	11:03:39	300.03	21.61	5.21	66.38	0.68	18.65	1.31	26.74
Last 5	11:08:40	600.93	21.55	5.18	63.79	0.92	18.70	0.58	21.49
Last 5	11:13:40	900.93	21.37	5.19	64.22	0.99	18.82	0.61	8.83
Last 5	11:18:40	1200.93	21.28	5.30	64.01	0.77	18.92	0.46	148.00
Last 5	11:23:40	1500.94	21.28	0.00	63.93	0.86	18.94	0.39	0.00
Variance 0			-0.18	0.01	0.43			0.04	-12.66
Variance 1			-0.09	0.12	-0.21			-0.15	139.17
Variance 2			0.00	-5.30	-0.08			-0.07	-148.00

Notes

Sampled at 1125

Grab Samples

Product Name: Low-Flow System

Date: 2017-10-11 11:32:17

Project Information:

Operator Name K. Minkara
Company Name Golder
Project Name 1662350
Site Name Plant Scherer
Latitude 0° 0' 0"
Longitude 0° 0' 0"
Sonde SN 449622
Turbidity Make/Model LaMotte

Pump Information:

Pump Model/Type QED Well Wizard
Tubing Type polyethylene
Tubing Diameter .17 in
Tubing Length 34.3 ft

Pump placement from TOC 34.3 ft

Well Information:

Well ID SGWC-11
Well diameter 2 in
Well Total Depth 42.7 ft
Screen Length 10 ft
Depth to Water 19.29 ft

Pumping Information:

Final Pumping Rate 150 mL/min
Total System Volume 0.6380954 L
Calculated Sample Rate 300 sec
Stabilization Drawdown 22.08 in
Total Volume Pumped 6 L

Low-Flow Sampling Stabilization Summary

	Time	Elapsed	Temp C	pH	SpCond μ S/cm	Turb NTU	DTW ft	RDO mg/L	ORP mV
Stabilization			+/- 0.5	+/- 0.1	+/- 5%	+/- 10		+/- 10%	+/- 10
Last 5	11:01:24	900.02	22.76	5.70	88.39	0.51	20.71	0.57	38.12
Last 5	11:06:24	1200.03	22.71	5.67	86.00	0.54	20.93	0.47	33.61
Last 5	11:11:29	1505.08	22.84	5.62	82.37	0.64	21.03	0.74	29.95
Last 5	11:21:30	2105.90	22.74	5.59	79.63	0.58	21.13	0.64	27.64
Last 5	11:26:39	2414.87	22.85	5.58	79.31	1.02	21.13	0.57	26.97
Variance 0			0.12	-0.04	-3.62			0.27	-3.66
Variance 1			-0.10	-0.04	-2.75			-0.10	-2.30
Variance 2			0.12	-0.01	-0.32			-0.06	-0.68

Notes

Sampled SGWC-11 at 1130

Grab Samples

Product Name: Low-Flow System

Date: 2017-10-11 13:19:57

Project Information:

Operator Name K. Minkara
Company Name Golder
Project Name 1662350
Site Name Plant Scherer
Latitude 0° 0' 0"
Longitude 0° 0' 0"
Sonde SN 449622
Turbidity Make/Model LaMotte

Pump Information:

Pump Model/Type QED Well Wizard
Tubing Type polyethylene
Tubing Diameter .17 in
Tubing Length 41.87 ft

Pump placement from TOC 41.87 ft

Well Information:

Well ID SGWC-12
Well diameter 2 in
Well Total Depth 50.2 ft
Screen Length 10 ft
Depth to Water 15.75 ft

Pumping Information:

Final Pumping Rate 120 mL/min
Total System Volume 0.6718835 L
Calculated Sample Rate 300 sec
Stabilization Drawdown 23.5 in
Total Volume Pumped 4 L

Low-Flow Sampling Stabilization Summary

	Time	Elapsed	Temp C	pH	SpCond μ S/cm	Turb NTU	DTW ft	RDO mg/L	ORP mV
Stabilization			+/- 0.5	+/- 0.1	+/- 5%	+/- 10		+/- 10%	+/- 10
Last 5	12:56:22	600.02	24.65	6.29	306.05	5.48	16.95	1.99	30.55
Last 5	13:01:22	900.03	24.20	6.23	307.08	5.50	17.36	0.84	25.65
Last 5	13:06:23	1201.02	24.06	6.25	305.22	7.05	17.56	0.83	23.38
Last 5	13:11:23	1501.03	24.28	6.27	304.80	5.62	17.65	1.01	22.68
Last 5	13:16:24	1802.03	24.47	6.26	303.93	4.22	17.71	0.93	21.65
Variance 0			-0.14	0.02	-1.87			-0.02	-2.27
Variance 1			0.22	0.02	-0.42			0.18	-0.69
Variance 2			0.18	-0.01	-0.87			-0.07	-1.04

Notes

Sampled SGWC-12 at 1315

Grab Samples

Product Name: Low-Flow System

Date: 2017-10-11 14:27:58

Project Information:

Operator Name K. Minkara
Company Name Golder
Project Name 1662350
Site Name Plant Scherer
Latitude 0° 0' 0"
Longitude 0° 0' 0"
Sonde SN 449622
Turbidity Make/Model LaMotte

Pump Information:

Pump Model/Type QED Well Wizard
Tubing Type polyethylene
Tubing Diameter .17 in
Tubing Length 29 ft

Pump placement from TOC 29 ft

Well Information:

Well ID SGWC-13
Well diameter 2 in
Well Total Depth 37.5 ft
Screen Length 10 ft
Depth to Water 4.17 ft

Pumping Information:

Final Pumping Rate 120 mL/min
Total System Volume 0.6144392 L
Calculated Sample Rate 300 sec
Stabilization Drawdown 11.52 in
Total Volume Pumped 3 L

Low-Flow Sampling Stabilization Summary

	Time	Elapsed	Temp C	pH	SpCond μ S/cm	Turb NTU	DTW ft	RDO mg/L	ORP mV
Stabilization			+/- 0.5	+/- 0.1	+/- 5%	+/- 10		+/- 10%	+/- 10
Last 5	14:03:51	300.10	29.48	6.45	245.57	2.82	4.82	0.87	17.42
Last 5	14:08:51	600.03	24.24	6.24	255.65	15.40	5.04	0.36	16.07
Last 5	14:13:51	900.02	23.70	6.17	255.73	12.95	5.07	0.24	17.55
Last 5	14:18:52	1201.03	23.40	6.16	255.21	6.81	5.13	0.21	19.02
Last 5	14:23:53	1502.02	23.27	6.14	255.16	4.56	5.13	0.18	19.71
Variance 0			-0.54	-0.06	0.08			-0.12	1.48
Variance 1			-0.31	-0.01	-0.52			-0.03	1.47
Variance 2			-0.12	-0.02	-0.05			-0.03	0.69

Notes

Sampled SGWC-13 at 1425

Grab Samples

Product Name: Low-Flow System

Date: 2017-10-11 15:49:34

Project Information:

Operator Name K. Minkara
Company Name Golder
Project Name 1662350
Site Name Plant Scherer
Latitude 0° 0' 0"
Longitude 0° 0' 0"
Sonde SN 449622
Turbidity Make/Model LaMotte

Pump Information:

Pump Model/Type QED Well Wizard
Tubing Type polyethylene
Tubing Diameter .17 in
Tubing Length 30.24 ft

Pump placement from TOC 30.24 ft

Well Information:

Well ID SGWC-14
Well diameter 2 in
Well Total Depth 38.5 ft
Screen Length 10 ft
Depth to Water 10.79 ft

Pumping Information:

Final Pumping Rate 100 mL/min
Total System Volume 0.6199739 L
Calculated Sample Rate 300 sec
Stabilization Drawdown 0.48 in
Total Volume Pumped 3 L

Low-Flow Sampling Stabilization Summary

	Time	Elapsed	Temp C	pH	SpCond μ S/cm	Turb NTU	DTW ft	RDO mg/L	ORP mV
Stabilization			+/- 0.5	+/- 0.1	+/- 5%	+/- 10		+/- 10%	+/- 10
Last 5	15:27:45	600.03	23.79	6.10	489.04	0.77	10.83	0.97	29.95
Last 5	15:32:45	900.03	22.82	6.05	492.34	1.08	10.83	0.59	32.52
Last 5	15:37:45	1200.03	22.31	6.02	494.25	0.95	10.83	0.44	34.34
Last 5	15:42:45	1500.03	23.11	5.99	495.53	1.07	10.83	0.37	35.08
Last 5	15:47:46	1801.03	23.18	5.98	493.96	1.96	10.83	0.40	36.53
Variance 0			-0.51	-0.02	1.91			-0.15	1.82
Variance 1			0.80	-0.04	1.28			-0.07	0.73
Variance 2			0.07	-0.01	-1.57			0.03	1.46

Notes

Sampled SGWC-14 at 1550

Grab Samples

Product Name: Low-Flow System

Date: 2017-10-12 08:56:03

Project Information:

Operator Name K. Minkara
Company Name Golder
Project Name 1662350
Site Name Plant Scherer
Latitude 0° 0' 0"
Longitude 0° 0' 0"
Sonde SN 449622
Turbidity Make/Model LaMotte

Pump Information:

Pump Model/Type QED Well Wizard
Tubing Type polyethylene
Tubing Diameter .17 in
Tubing Length 39.65 ft

Pump placement from TOC 39.65 ft

Well Information:

Well ID SGWC-15
Well diameter 2 in
Well Total Depth 48.2 ft
Screen Length 10 ft
Depth to Water 29.86 ft

Pumping Information:

Final Pumping Rate 100 mL/min
Total System Volume 0.6619747 L
Calculated Sample Rate 300 sec
Stabilization Drawdown 0.48 in
Total Volume Pumped 3 L

Low-Flow Sampling Stabilization Summary

	Time	Elapsed	Temp C	pH	SpCond μ S/cm	Turb NTU	DTW ft	RDO mg/L	ORP mV
Stabilization			+/- 0.5	+/- 0.1	+/- 5%	+/- 10		+/- 10%	+/- 10
Last 5	08:34:27	600.03	20.32	5.02	454.68	0.66	29.90	1.75	97.22
Last 5	08:39:27	900.02	19.77	4.83	459.93	0.68	29.90	1.18	96.89
Last 5	08:44:27	1200.02	19.68	4.79	461.32	0.74	29.90	1.04	97.07
Last 5	08:49:27	1499.89	19.66	4.78	461.75	1.07	29.90	0.97	98.54
Last 5	08:54:27	1799.89	19.64	4.76	462.51	1.17	29.90	0.96	100.77
Variance 0			-0.09	-0.03	1.39			-0.13	0.18
Variance 1			-0.02	-0.01	0.43			-0.07	1.47
Variance 2			-0.02	-0.02	0.77			-0.01	2.23

Notes

Sampled SGWC-15 at 0855

Grab Samples

Product Name: Low-Flow System

Date: 2017-10-12 10:02:42

Project Information:

Operator Name K. Minkara
Company Name Golder
Project Name 1662350
Site Name Plant Scherer
Latitude 0° 0' 0"
Longitude 0° 0' 0"
Sonde SN 449622
Turbidity Make/Model LaMotte

Pump Information:

Pump Model/Type QED Well Wizard
Tubing Type polyethylene
Tubing Diameter .17 in
Tubing Length 34.62 ft

Pump placement from TOC 34.62 ft

Well Information:

Well ID SGWC-16
Well diameter 2 in
Well Total Depth 43.3 ft
Screen Length 10 ft
Depth to Water 25.88 ft

Pumping Information:

Final Pumping Rate 100 mL/min
Total System Volume 0.6395237 L
Calculated Sample Rate 300 sec
Stabilization Drawdown 0.72 in
Total Volume Pumped 3 L

Low-Flow Sampling Stabilization Summary

	Time	Elapsed	Temp C	pH	SpCond μ S/cm	Turb NTU	DTW ft	RDO mg/L	ORP mV
Stabilization			+/- 0.5	+/- 0.1	+/- 5%	+/- 10		+/- 10%	+/- 10
Last 5	09:41:19	600.03	20.97	5.48	83.70	1.57	25.94	3.57	54.83
Last 5	09:46:19	900.02	20.66	5.45	90.64	3.43	25.94	3.02	53.81
Last 5	09:51:19	1200.03	20.84	5.44	94.87	4.19	25.94	2.87	52.74
Last 5	09:56:19	1500.03	21.38	5.43	94.80	3.77	25.94	2.79	50.95
Last 5	10:01:19	1800.03	21.65	5.43	94.76	3.75	25.94	2.74	49.91
Variance 0			0.18	-0.01	4.23			-0.15	-1.07
Variance 1			0.54	-0.01	-0.08			-0.09	-1.79
Variance 2			0.27	-0.00	-0.03			-0.04	-1.04

Notes

Sampled SGWC-16 at 1000

Grab Samples

Product Name: Low-Flow System

Date: 2017-10-12 13:04:16

Project Information:

Operator Name K. Minkara
Company Name Golder
Project Name 1662350
Site Name Plant Scherer
Latitude 0° 0' 0"
Longitude 0° 0' 0"
Sonde SN 449622
Turbidity Make/Model LaMotte

Pump Information:

Pump Model/Type QED Well Wizard
Tubing Type polyethylene
Tubing Diameter .17 in
Tubing Length 19.26 ft

Pump placement from TOC 19.26 ft

Well Information:

Well ID SGWC-17
Well diameter 2 in
Well Total Depth 27.6 ft
Screen Length 10 ft
Depth to Water 0 ft

Pumping Information:

Final Pumping Rate 120 mL/min
Total System Volume 0.5709655 L
Calculated Sample Rate 300 sec
Stabilization Drawdown 7.2 in
Total Volume Pumped 3 L

Low-Flow Sampling Stabilization Summary

	Time	Elapsed	Temp C	pH	SpCond μ S/cm	Turb NTU	DTW ft	RDO mg/L	ORP mV
Stabilization			+/- 0.5	+/- 0.1	+/- 5%	+/- 10		+/- 10%	+/- 10
Last 5	12:42:20	300.04	24.29	6.33	476.77	4.89	0.60	0.94	11.51
Last 5	12:47:20	600.02	23.97	6.33	480.78	3.75	0.60	0.65	14.56
Last 5	12:52:20	900.03	23.66	6.33	481.30	4.37	0.60	0.58	15.82
Last 5	12:57:20	1200.02	23.56	6.33	484.18	3.38	0.60	0.45	16.24
Last 5	13:02:24	1504.03	23.48	6.33	484.72	3.82	0.60	0.42	16.64
Variance 0			-0.31	-0.00	0.52			-0.07	1.26
Variance 1			-0.10	0.00	2.89			-0.13	0.42
Variance 2			-0.08	-0.00	0.54			-0.03	0.40

Notes

Sampled SGWC-17 at 1300. Artesian well

Grab Samples

Product Name: Low-Flow System

Date: 2017-10-12 15:53:17

Project Information:

Operator Name K. Minkara
Company Name Golder
Project Name 1662350
Site Name Plant Scherer
Latitude 0° 0' 0"
Longitude 0° 0' 0"
Sonde SN 449622
Turbidity Make/Model LaMotte

Pump Information:

Pump Model/Type QED Well Wizard
Tubing Type polyethylene
Tubing Diameter .17 in
Tubing Length 39.2 ft

Pump placement from TOC 39.2 ft

Well Information:

Well ID SGWC-18
Well diameter 2 in
Well Total Depth 47.6 ft
Screen Length 10 ft
Depth to Water 36.48 ft

Pumping Information:

Final Pumping Rate 100 mL/min
Total System Volume 0.6599662 L
Calculated Sample Rate 300 sec
Stabilization Drawdown 1.68 in
Total Volume Pumped 4.5 L

Low-Flow Sampling Stabilization Summary

	Time	Elapsed	Temp C	pH	SpCond μ S/cm	Turb NTU	DTW ft	RDO mg/L	ORP mV
Stabilization			+/- 0.5	+/- 0.1	+/- 5%	+/- 10		+/- 10%	+/- 10
Last 5	15:25:28	1200.03	25.98	4.91	886.52	0.35	36.62	2.76	74.78
Last 5	15:30:28	1500.02	25.89	4.90	887.79	0.42	36.62	2.64	75.66
Last 5	15:40:28	2100.03	25.52	4.89	888.81	0.32	36.62	2.41	77.34
Last 5	15:45:28	2400.02	25.63	4.88	891.04	0.39	36.62	2.26	77.68
Last 5	15:50:27	2699.88	25.68	4.86	895.13	0.44	36.62	2.21	78.18
Variance 0			-0.38	-0.01	1.03			-0.22	1.68
Variance 1			0.11	-0.02	2.22			-0.16	0.34
Variance 2			0.05	-0.01	4.09			-0.04	0.50

Notes

Sampled SGWC-18 at 1550. Readings at 1800 seconds were not presented on app interface. DTW and NTU values not recorded at 1800sec

Grab Samples

Product Name: Low-Flow System

Date: 2017-10-12 14:56:14

Project Information:

Operator Name D.Thomas
Company Name Golder Associates
Project Name 1662350
Site Name Plant Scherer
Latitude 0° 0' 0"
Longitude 0° 0' 0"
Sonde SN 463068
Turbidity Make/Model Lamotte

Pump Information:

Pump Model/Type QED Well Wizard
Tubing Type poly
Tubing Diameter .170 in
Tubing Length 29.0 ft

Pump placement from TOC 29.0 ft

Well Information:

Well ID SGWC-19
Well diameter 2 in
Well Total Depth 37.4 ft
Screen Length 10 ft
Depth to Water 16.4 ft

Pumping Information:

Final Pumping Rate 200 mL/min
Total System Volume 0.6144392 L
Calculated Sample Rate 300 sec
Stabilization Drawdown 9.36 in
Total Volume Pumped 5 L

Low-Flow Sampling Stabilization Summary

	Time	Elapsed	Temp C	pH	SpCond μ S/cm	Turb NTU	DTW ft	RDO mg/L	ORP mV
Stabilization			+/- 0.5	+/- 0.1	+/- 5%	+/- 10		+/- 10%	+/- 10
Last 5	14:33:55	300.10	21.02	5.59	480.01	0.31	17.10	3.60	168.57
Last 5	14:38:55	600.03	20.66	5.58	482.51	0.23	17.14	3.00	165.88
Last 5	14:43:55	900.03	20.63	5.58	483.71	0.28	17.18	2.78	164.41
Last 5	14:48:55	1200.03	20.64	5.58	483.30	0.26	17.18	2.68	162.66
Last 5	14:53:55	1500.03	20.66	5.57	483.73	0.23	17.18	2.62	161.20
Variance 0			-0.03	-0.00	1.20			-0.22	-1.47
Variance 1			0.01	-0.00	-0.41			-0.11	-1.75
Variance 2			0.02	-0.01	0.43			-0.06	-1.46

Notes

Began purging at 1428
Stopped purging and began sampling at 1453

Grab Samples

Product Name: Low-Flow System

Date: 2017-10-12 13:26:06

Project Information:

Operator Name D.Thomas
Company Name Golder Associates
Project Name 1662350
Site Name Plant Scherer
Latitude 0° 0' 0"
Longitude 0° 0' 0"
Sonde SN 463068
Turbidity Make/Model Lamotte

Pump Information:

Pump Model/Type QED Well Wizard
Tubing Type poly
Tubing Diameter .170 in
Tubing Length 19.5 ft

Pump placement from TOC 19.5 ft

Well Information:

Well ID SGWC-20
Well diameter 2 in
Well Total Depth 27.9 ft
Screen Length 10 ft
Depth to Water 14.0 ft

Pumping Information:

Final Pumping Rate 200 mL/min
Total System Volume 0.5720367 L
Calculated Sample Rate 300 sec
Stabilization Drawdown 7.2 in
Total Volume Pumped 10 L

Low-Flow Sampling Stabilization Summary

	Time	Elapsed	Temp C	pH	SpCond μ S/cm	Turb NTU	DTW ft	RDO mg/L	ORP mV
Stabilization			+/- 0.5	+/- 0.1	+/- 5%	+/- 10		+/- 10%	+/- 10
Last 5	13:00:03	1799.97	24.87	4.31	501.51	0.25	14.60	1.32	142.85
Last 5	13:05:03	2099.98	24.75	4.31	502.04	0.32	14.60	1.10	145.39
Last 5	13:10:03	2399.98	24.90	4.31	502.37	0.37	14.60	0.92	148.01
Last 5	13:15:03	2699.98	24.81	4.32	502.34	0.22	14.60	0.83	150.82
Last 5	13:20:03	2999.99	24.88	4.32	502.14	0.29	14.60	0.76	154.21
Variance 0			0.15	0.00	0.33			-0.18	2.62
Variance 1			-0.08	0.00	-0.03			-0.09	2.82
Variance 2			0.07	-0.00	-0.20			-0.06	3.39

Notes

Began purging at 1230
Stopped purging and began sampling

Grab Samples

Product Name: Low-Flow System

Date: 2017-10-12 10:49:55

Project Information:

Operator Name D.Thomas
Company Name Golder Associates
Project Name 1662350
Site Name Plant Scherer
Latitude 0° 0' 0"
Longitude 0° 0' 0"
Sonde SN 463068
Turbidity Make/Model Lamotte

Pump Information:

Pump Model/Type QED Well Wizard
Tubing Type poly
Tubing Diameter .170 in
Tubing Length 19.39 ft

Pump placement from TOC 19.39 ft

Well Information:

Well ID SGWC-21
Well diameter 2 in
Well Total Depth 27.79 ft
Screen Length 10 ft
Depth to Water 1.60 ft

Pumping Information:

Final Pumping Rate 200 mL/min
Total System Volume 0.5715458 L
Calculated Sample Rate 300 sec
Stabilization Drawdown 2.04 in
Total Volume Pumped 9 L

Low-Flow Sampling Stabilization Summary

	Time	Elapsed	Temp C	pH	SpCond μ S/cm	Turb NTU	DTW ft	RDO mg/L	ORP mV
Stabilization			+/- 0.5	+/- 0.1	+/- 5%	+/- 10		+/- 10%	+/- 10
Last 5	10:28:08	1500.03	21.46	6.09	402.33	0.28	1.77	2.47	100.85
Last 5	10:33:09	1801.03	21.48	6.09	403.96	0.28	1.77	0.35	102.71
Last 5	10:38:09	2101.03	21.55	6.09	403.63	0.24	1.77	0.29	104.53
Last 5	10:43:09	2401.03	21.51	6.08	403.54	0.23	1.77	0.28	104.76
Last 5	10:48:09	2701.03	21.57	6.09	403.33	0.23	1.77	0.26	105.53
Variance 0			0.07	-0.01	-0.33			-0.06	1.82
Variance 1			-0.04	-0.00	-0.10			-0.01	0.23
Variance 2			0.07	0.00	-0.20			-0.02	0.77

Notes

Began purging at 1003
Stopped purging and began sampling at 1048

Grab Samples

Product Name: Low-Flow System

Date: 2017-10-12 09:12:10

Project Information:

Operator Name D.Thomas
Company Name Golder Associates
Project Name 1662350
Site Name Plant Scherer
Latitude 0° 0' 0"
Longitude 0° 0' 0"
Sonde SN 463068
Turbidity Make/Model Lamotte

Pump Information:

Pump Model/Type QED Well Wizard
Tubing Type poly
Tubing Diameter .170 in
Tubing Length 44.20 ft

Pump placement from TOC 44.20 ft

Well Information:

Well ID SGWC-22
Well diameter 2 in
Well Total Depth 52.6 ft
Screen Length 10 ft
Depth to Water 26.81 ft

Pumping Information:

Final Pumping Rate 150 mL/min
Total System Volume 0.6822833 L
Calculated Sample Rate 300 sec
Stabilization Drawdown 13.08 in
Total Volume Pumped 6.75 L

Low-Flow Sampling Stabilization Summary

	Time	Elapsed	Temp C	pH	SpCond μ S/cm	Turb NTU	DTW ft	RDO mg/L	ORP mV
Stabilization			+/- 0.5	+/- 0.1	+/- 5%	+/- 10		+/- 10%	+/- 10
Last 5	08:47:32	1500.03	19.72	5.73	309.78	0.00	27.90	0.47	82.95
Last 5	08:52:32	1800.03	20.07	5.73	308.40	0.00	27.90	0.40	83.57
Last 5	08:57:32	2100.03	20.43	5.73	307.56	0.15	27.90	0.35	83.65
Last 5	09:02:32	2400.03	20.64	5.74	307.28	0.17	27.90	0.32	83.60
Last 5	09:07:32	2700.03	20.65	5.73	307.04	0.07	27.90	0.30	83.83
Variance 0			0.36	-0.00	-0.84			-0.05	0.09
Variance 1			0.22	0.01	-0.28			-0.03	-0.05
Variance 2			0.01	-0.00	-0.24			-0.02	0.23

Notes

Began purging at 0822
Stopped purging and began sampling at 0907

Grab Samples

Product Name: Low-Flow System

Date: 2017-10-12 14:19:18

Project Information:

Operator Name K. Minkara
Company Name Golder
Project Name 1662350
Site Name Plant Scherer
Latitude 0° 0' 0"
Longitude 0° 0' 0"
Sonde SN 449622
Turbidity Make/Model LaMotte

Pump Information:

Pump Model/Type QED Well Wizard
Tubing Type polyethylene
Tubing Diameter .17 in
Tubing Length 44.25 ft

Pump placement from TOC 44.25 ft

Well Information:

Well ID SGWC-23
Well diameter 2 in
Well Total Depth 52.6 ft
Screen Length 10 ft
Depth to Water 31.22 ft

Pumping Information:

Final Pumping Rate 120 mL/min
Total System Volume 0.6825064 L
Calculated Sample Rate 300 sec
Stabilization Drawdown 1.08 in
Total Volume Pumped 3 L

Low-Flow Sampling Stabilization Summary

	Time	Elapsed	Temp C	pH	SpCond μ S/cm	Turb NTU	DTW ft	RDO mg/L	ORP mV
Stabilization			+/- 0.5	+/- 0.1	+/- 5%	+/- 10		+/- 10%	+/- 10
Last 5	13:57:19	300.04	28.69	6.65	339.24	0.51	31.31	3.82	40.27
Last 5	14:02:19	600.03	24.30	6.20	344.95	0.68	31.31	1.08	38.34
Last 5	14:07:19	900.02	24.02	6.10	340.85	0.27	31.31	0.74	40.32
Last 5	14:12:19	1199.86	23.90	6.09	338.57	0.53	31.31	0.80	41.77
Last 5	14:17:19	1499.86	23.93	6.07	340.83	0.59	31.31	0.87	42.74
Variance 0			-0.28	-0.10	-4.11			-0.34	1.98
Variance 1			-0.12	-0.02	-2.28			0.06	1.45
Variance 2			0.03	-0.02	2.27			0.08	0.96

Notes

Sampled SGWC-23 at 1420

Grab Samples

Product Name: Low-Flow System

Date: 2017-10-10 10:30:19

Project Information:

Operator Name K. Minkara
Company Name Golder
Project Name 1662350
Site Name Plant Scherer
Latitude 0° 0' 0"
Longitude 0° 0' 0"
Sonde SN 449622
Turbidity Make/Model LaMotte

Pump Information:

Pump Model/Type QED Well Wizard
Tubing Type polyethylene
Tubing Diameter .17 in
Tubing Length 34.8 ft

Pump placement from TOC 34.8 ft

Well Information:

Well ID SGWA-24
Well diameter 2 in
Well Total Depth 42.9 ft
Screen Length 10 ft
Depth to Water 16.13 ft

Pumping Information:

Final Pumping Rate 100 mL/min
Total System Volume 0.6403272 L
Calculated Sample Rate 300 sec
Stabilization Drawdown 3.36 in
Total Volume Pumped 3 L

Low-Flow Sampling Stabilization Summary

	Time	Elapsed	Temp C	pH	SpCond μ S/cm	Turb NTU	DTW ft	RDO mg/L	ORP mV
Stabilization			+/- 0.5	+/- 0.1	+/- 5%	+/- 10		+/- 10%	+/- 10
Last 5	10:06:53	300.10	22.31	6.65	145.41	2.43	16.41	2.54	55.47
Last 5	10:11:53	600.02	21.64	6.45	142.27	1.75	16.41	1.80	44.99
Last 5	10:16:53	900.02	21.46	6.39	142.00	2.80	16.41	1.77	40.31
Last 5	10:21:53	1200.02	21.38	6.38	141.55	2.81	16.41	1.78	37.26
Last 5	10:26:53	1500.02	21.37	6.37	141.69	3.92	16.41	1.77	34.27
Variance 0			-0.18	-0.06	-0.27			-0.03	-4.67
Variance 1			-0.09	-0.01	-0.44			0.01	-3.06
Variance 2			-0.00	-0.01	0.14			-0.01	-2.99

Notes

Sampled SGWA-24 at 1030

Grab Samples

Product Name: Low-Flow System

Date: 2017-10-11 09:49:31

Project Information:

Operator Name K. Minkara
Company Name Golder
Project Name 1662350
Site Name Plant Scherer
Latitude 0° 0' 0"
Longitude 0° 0' 0"
Sonde SN 449622
Turbidity Make/Model LaMotte

Pump Information:

Pump Model/Type QED Well Wizard
Tubing Type polyethylene
Tubing Diameter .17 in
Tubing Length 39.75 ft

Pump placement from TOC 39.75 ft

Well Information:

Well ID SGWA-25
Well diameter 2 in
Well Total Depth 48 ft
Screen Length 10 ft
Depth to Water 31.08 ft

Pumping Information:

Final Pumping Rate 100 mL/min
Total System Volume 0.6624211 L
Calculated Sample Rate 300 sec
Stabilization Drawdown 1.2 in
Total Volume Pumped 3 L

Low-Flow Sampling Stabilization Summary

	Time	Elapsed	Temp C	pH	SpCond μ S/cm	Turb NTU	DTW ft	RDO mg/L	ORP mV
Stabilization			+/- 0.5	+/- 0.1	+/- 5%	+/- 10		+/- 10%	+/- 10
Last 5	09:24:29	600.02	21.28	6.38	126.86	2.13	31.18	1.98	55.69
Last 5	09:29:29	900.02	20.95	6.18	127.84	1.89	31.18	0.78	49.16
Last 5	09:34:29	1199.86	20.93	6.16	127.08	3.58	31.18	0.46	45.33
Last 5	09:39:29	1499.86	20.81	6.15	126.58	2.90	31.18	0.39	42.46
Last 5	09:44:32	1802.85	20.81	6.16	125.86	2.78	31.18	0.32	40.47
Variance 0			-0.02	-0.02	-0.76			-0.31	-3.82
Variance 1			-0.12	-0.01	-0.50			-0.07	-2.87
Variance 2			0.00	0.01	-0.73			-0.07	-1.99

Notes

Sampled SGWA-25 at 0950

Grab Samples



APPENDIX B

STATISTICAL ANALYSES

Prediction Limit

Scherer Client: Golder Associates Data: Scherer Ash Pond_CCR Printed 1/23/2018, 7:55 PM

Constituent	Well	Upper Lim.	Lower Lim.	Date	Observ.	Sig.	Bg N	%NDs	Transform	Alpha	Method
Boron (mg/L)	SGWC-11	0.05	n/a	10/11/2017	0.31	Yes	63	96.83	n/a	0.000...	NP Inter (NDs) 1 of 2
Boron (mg/L)	SGWC-13	0.05	n/a	10/11/2017	0.49	Yes	63	96.83	n/a	0.000...	NP Inter (NDs) 1 of 2
Boron (mg/L)	SGWC-14	0.05	n/a	10/11/2017	1.5	Yes	63	96.83	n/a	0.000...	NP Inter (NDs) 1 of 2
Boron (mg/L)	SGWC-15	0.05	n/a	10/12/2017	1.6	Yes	63	96.83	n/a	0.000...	NP Inter (NDs) 1 of 2
Boron (mg/L)	SGWC-16	0.05	n/a	10/12/2017	0.57	Yes	63	96.83	n/a	0.000...	NP Inter (NDs) 1 of 2
Boron (mg/L)	SGWC-17	0.05	n/a	10/12/2017	0.47	Yes	63	96.83	n/a	0.000...	NP Inter (NDs) 1 of 2
Boron (mg/L)	SGWC-18	0.05	n/a	10/12/2017	3.9	Yes	63	96.83	n/a	0.000...	NP Inter (NDs) 1 of 2
Boron (mg/L)	SGWC-19	0.05	n/a	10/12/2017	1.9	Yes	63	96.83	n/a	0.000...	NP Inter (NDs) 1 of 2
Boron (mg/L)	SGWC-20	0.05	n/a	10/12/2017	2.6	Yes	63	96.83	n/a	0.000...	NP Inter (NDs) 1 of 2
Boron (mg/L)	SGWC-21	0.05	n/a	10/12/2017	1.4	Yes	63	96.83	n/a	0.000...	NP Inter (NDs) 1 of 2
Boron (mg/L)	SGWC-22	0.05	n/a	10/12/2017	0.4	Yes	63	96.83	n/a	0.000...	NP Inter (NDs) 1 of 2
Boron (mg/L)	SGWC-23	0.05	n/a	10/12/2017	0.54	Yes	63	96.83	n/a	0.000...	NP Inter (NDs) 1 of 2
Boron (mg/L)	SGWC-8	0.05	n/a	10/12/2017	0.075	Yes	63	96.83	n/a	0.000...	NP Inter (NDs) 1 of 2
Boron (mg/L)	SGWC-9	0.05	n/a	10/12/2017	1.8	Yes	63	96.83	n/a	0.000...	NP Inter (NDs) 1 of 2
Calcium (mg/L)	SGWC-12	19	n/a	10/11/2017	23	Yes	60	0	n/a	0.000...	NP Inter (normality) ...
Calcium (mg/L)	SGWC-14	19	n/a	10/11/2017	44	Yes	60	0	n/a	0.000...	NP Inter (normality) ...
Calcium (mg/L)	SGWC-17	19	n/a	10/12/2017	48	Yes	60	0	n/a	0.000...	NP Inter (normality) ...
Calcium (mg/L)	SGWC-18	19	n/a	10/12/2017	43	Yes	60	0	n/a	0.000...	NP Inter (normality) ...
Calcium (mg/L)	SGWC-19	19	n/a	10/12/2017	39	Yes	60	0	n/a	0.000...	NP Inter (normality) ...
Calcium (mg/L)	SGWC-21	19	n/a	10/12/2017	31	Yes	60	0	n/a	0.000...	NP Inter (normality) ...
Calcium (mg/L)	SGWC-22	19	n/a	10/12/2017	27	Yes	60	0	n/a	0.000...	NP Inter (normality) ...
Calcium (mg/L)	SGWC-23	19	n/a	10/12/2017	31	Yes	60	0	n/a	0.000...	NP Inter (normality) ...
Calcium (mg/L)	SGWC-7	19	n/a	10/11/2017	22	Yes	60	0	n/a	0.000...	NP Inter (normality) ...
Calcium (mg/L)	SGWC-8	19	n/a	10/12/2017	51	Yes	60	0	n/a	0.000...	NP Inter (normality) ...
Calcium (mg/L)	SGWC-9	19	n/a	10/12/2017	55	Yes	60	0	n/a	0.000...	NP Inter (normality) ...
Chloride (mg/L)	SGWC-10	3.256	n/a	10/12/2017	8.5	Yes	61	0	x^(1/3)	0.000418	Param Inter 1 of 2
Chloride (mg/L)	SGWC-11	3.256	n/a	10/11/2017	7.4	Yes	61	0	x^(1/3)	0.000418	Param Inter 1 of 2
Chloride (mg/L)	SGWC-12	3.256	n/a	10/11/2017	8.8	Yes	61	0	x^(1/3)	0.000418	Param Inter 1 of 2
Chloride (mg/L)	SGWC-13	3.256	n/a	10/11/2017	5.7	Yes	61	0	x^(1/3)	0.000418	Param Inter 1 of 2
Chloride (mg/L)	SGWC-14	3.256	n/a	10/11/2017	10	Yes	61	0	x^(1/3)	0.000418	Param Inter 1 of 2
Chloride (mg/L)	SGWC-15	3.256	n/a	10/12/2017	9.2	Yes	61	0	x^(1/3)	0.000418	Param Inter 1 of 2
Chloride (mg/L)	SGWC-16	3.256	n/a	10/12/2017	7.6	Yes	61	0	x^(1/3)	0.000418	Param Inter 1 of 2
Chloride (mg/L)	SGWC-17	3.256	n/a	10/12/2017	8	Yes	61	0	x^(1/3)	0.000418	Param Inter 1 of 2
Chloride (mg/L)	SGWC-18	3.256	n/a	10/12/2017	7.4	Yes	61	0	x^(1/3)	0.000418	Param Inter 1 of 2
Chloride (mg/L)	SGWC-19	3.256	n/a	10/12/2017	7.4	Yes	61	0	x^(1/3)	0.000418	Param Inter 1 of 2
Chloride (mg/L)	SGWC-20	3.256	n/a	10/12/2017	11	Yes	61	0	x^(1/3)	0.000418	Param Inter 1 of 2
Chloride (mg/L)	SGWC-21	3.256	n/a	10/12/2017	8.1	Yes	61	0	x^(1/3)	0.000418	Param Inter 1 of 2
Chloride (mg/L)	SGWC-22	3.256	n/a	10/12/2017	9.7	Yes	61	0	x^(1/3)	0.000418	Param Inter 1 of 2
Chloride (mg/L)	SGWC-23	3.256	n/a	10/12/2017	9.3	Yes	61	0	x^(1/3)	0.000418	Param Inter 1 of 2
Chloride (mg/L)	SGWC-7	3.256	n/a	10/11/2017	5	Yes	61	0	x^(1/3)	0.000418	Param Inter 1 of 2
Chloride (mg/L)	SGWC-8	3.256	n/a	10/12/2017	11	Yes	61	0	x^(1/3)	0.000418	Param Inter 1 of 2
Chloride (mg/L)	SGWC-9	3.256	n/a	10/12/2017	11	Yes	61	0	x^(1/3)	0.000418	Param Inter 1 of 2
Fluoride (mg/L)	SGWC-7	0.15	n/a	10/11/2017	0.21	Yes	63	79.37	n/a	0.000...	NP Inter (NDs) 1 of 2
Fluoride (mg/L)	SGWC-8	0.15	n/a	10/12/2017	0.47	Yes	63	79.37	n/a	0.000...	NP Inter (NDs) 1 of 2
pH (S.U.)	SGWC-15	7.106	4.954	10/12/2017	4.76	Yes	54	0	No	0.000209	Param Inter 1 of 2
pH (S.U.)	SGWC-18	7.106	4.954	10/12/2017	4.86	Yes	54	0	No	0.000209	Param Inter 1 of 2
pH (S.U.)	SGWC-20	7.106	4.954	10/12/2017	4.32	Yes	54	0	No	0.000209	Param Inter 1 of 2
Sulfate (mg/L)	SGWC-12	3.75	n/a	10/11/2017	33	Yes	63	49.21	n/a	0.000...	NP Inter (normality) ...
Sulfate (mg/L)	SGWC-13	3.75	n/a	10/11/2017	72	Yes	63	49.21	n/a	0.000...	NP Inter (normality) ...
Sulfate (mg/L)	SGWC-14	3.75	n/a	10/11/2017	190	Yes	63	49.21	n/a	0.000...	NP Inter (normality) ...

Prediction Limit

Scherer Client: Golder Associates Data: Scherer Ash Pond_CCR Printed 1/23/2018, 7:55 PM

Constituent	Well	Upper Lim.	Lower Lim.	Date	Observ.	Sig.	Bg N	%NDs	Transform	Alpha	Method
Sulfate (mg/L)	SGWC-15	3.75	n/a	10/12/2017	190	Yes	63	49.21	n/a	0.000...	NP Inter (normality) ...
Sulfate (mg/L)	SGWC-16	3.75	n/a	10/12/2017	20	Yes	63	49.21	n/a	0.000...	NP Inter (normality) ...
Sulfate (mg/L)	SGWC-17	3.75	n/a	10/12/2017	170	Yes	63	49.21	n/a	0.000...	NP Inter (normality) ...
Sulfate (mg/L)	SGWC-18	3.75	n/a	10/12/2017	430	Yes	63	49.21	n/a	0.000...	NP Inter (normality) ...
Sulfate (mg/L)	SGWC-19	3.75	n/a	10/12/2017	210	Yes	63	49.21	n/a	0.000...	NP Inter (normality) ...
Sulfate (mg/L)	SGWC-20	3.75	n/a	10/12/2017	210	Yes	63	49.21	n/a	0.000...	NP Inter (normality) ...
Sulfate (mg/L)	SGWC-21	3.75	n/a	10/12/2017	76	Yes	63	49.21	n/a	0.000...	NP Inter (normality) ...
Sulfate (mg/L)	SGWC-22	3.75	n/a	10/12/2017	87	Yes	63	49.21	n/a	0.000...	NP Inter (normality) ...
Sulfate (mg/L)	SGWC-23	3.75	n/a	10/12/2017	120	Yes	63	49.21	n/a	0.000...	NP Inter (normality) ...
Sulfate (mg/L)	SGWC-7	3.75	n/a	10/11/2017	15	Yes	63	49.21	n/a	0.000...	NP Inter (normality) ...
Sulfate (mg/L)	SGWC-8	3.75	n/a	10/12/2017	74	Yes	63	49.21	n/a	0.000...	NP Inter (normality) ...
Sulfate (mg/L)	SGWC-9	3.75	n/a	10/12/2017	310	Yes	63	49.21	n/a	0.000...	NP Inter (normality) ...
Total Dissolved Solids (mg/L)	SGWC-12	143.9	n/a	10/11/2017	190	Yes	63	0	No	0.000418	Param Inter 1 of 2
Total Dissolved Solids (mg/L)	SGWC-13	143.9	n/a	10/11/2017	170	Yes	63	0	No	0.000418	Param Inter 1 of 2
Total Dissolved Solids (mg/L)	SGWC-14	143.9	n/a	10/11/2017	340	Yes	63	0	No	0.000418	Param Inter 1 of 2
Total Dissolved Solids (mg/L)	SGWC-15	143.9	n/a	10/12/2017	330	Yes	63	0	No	0.000418	Param Inter 1 of 2
Total Dissolved Solids (mg/L)	SGWC-17	143.9	n/a	10/12/2017	380	Yes	63	0	No	0.000418	Param Inter 1 of 2
Total Dissolved Solids (mg/L)	SGWC-18	143.9	n/a	10/12/2017	640	Yes	63	0	No	0.000418	Param Inter 1 of 2
Total Dissolved Solids (mg/L)	SGWC-19	143.9	n/a	10/12/2017	370	Yes	63	0	No	0.000418	Param Inter 1 of 2
Total Dissolved Solids (mg/L)	SGWC-20	143.9	n/a	10/12/2017	350	Yes	63	0	No	0.000418	Param Inter 1 of 2
Total Dissolved Solids (mg/L)	SGWC-21	143.9	n/a	10/12/2017	290	Yes	63	0	No	0.000418	Param Inter 1 of 2
Total Dissolved Solids (mg/L)	SGWC-22	143.9	n/a	10/12/2017	230	Yes	63	0	No	0.000418	Param Inter 1 of 2
Total Dissolved Solids (mg/L)	SGWC-23	143.9	n/a	10/12/2017	280	Yes	63	0	No	0.000418	Param Inter 1 of 2
Total Dissolved Solids (mg/L)	SGWC-7	143.9	n/a	10/11/2017	210	Yes	63	0	No	0.000418	Param Inter 1 of 2
Total Dissolved Solids (mg/L)	SGWC-8	143.9	n/a	10/12/2017	400	Yes	63	0	No	0.000418	Param Inter 1 of 2
Total Dissolved Solids (mg/L)	SGWC-9	143.9	n/a	10/12/2017	560	Yes	63	0	No	0.000418	Param Inter 1 of 2

Prediction Limit

Scherer Client: Golder Associates Data: Scherer Ash Pond_CCR Printed 1/23/2018, 7:55 PM

Constituent	Well	Upper Lim.	Lower Lim.	Date	Observ.	Sig.	Bg N	%NDs	Transform	Alpha	Method
Boron (mg/L)	SGWC-10	0.05	n/a	10/12/2017	0.049	No	63	96.83	n/a	0.000...	NP Inter (NDs) 1 of 2
Boron (mg/L)	SGWC-11	0.05	n/a	10/11/2017	0.31	Yes	63	96.83	n/a	0.000...	NP Inter (NDs) 1 of 2
Boron (mg/L)	SGWC-12	0.05	n/a	10/11/2017	0.025ND	No	63	96.83	n/a	0.000...	NP Inter (NDs) 1 of 2
Boron (mg/L)	SGWC-13	0.05	n/a	10/11/2017	0.49	Yes	63	96.83	n/a	0.000...	NP Inter (NDs) 1 of 2
Boron (mg/L)	SGWC-14	0.05	n/a	10/11/2017	1.5	Yes	63	96.83	n/a	0.000...	NP Inter (NDs) 1 of 2
Boron (mg/L)	SGWC-15	0.05	n/a	10/12/2017	1.6	Yes	63	96.83	n/a	0.000...	NP Inter (NDs) 1 of 2
Boron (mg/L)	SGWC-16	0.05	n/a	10/12/2017	0.57	Yes	63	96.83	n/a	0.000...	NP Inter (NDs) 1 of 2
Boron (mg/L)	SGWC-17	0.05	n/a	10/12/2017	0.47	Yes	63	96.83	n/a	0.000...	NP Inter (NDs) 1 of 2
Boron (mg/L)	SGWC-18	0.05	n/a	10/12/2017	3.9	Yes	63	96.83	n/a	0.000...	NP Inter (NDs) 1 of 2
Boron (mg/L)	SGWC-19	0.05	n/a	10/12/2017	1.9	Yes	63	96.83	n/a	0.000...	NP Inter (NDs) 1 of 2
Boron (mg/L)	SGWC-20	0.05	n/a	10/12/2017	2.6	Yes	63	96.83	n/a	0.000...	NP Inter (NDs) 1 of 2
Boron (mg/L)	SGWC-21	0.05	n/a	10/12/2017	1.4	Yes	63	96.83	n/a	0.000...	NP Inter (NDs) 1 of 2
Boron (mg/L)	SGWC-22	0.05	n/a	10/12/2017	0.4	Yes	63	96.83	n/a	0.000...	NP Inter (NDs) 1 of 2
Boron (mg/L)	SGWC-23	0.05	n/a	10/12/2017	0.54	Yes	63	96.83	n/a	0.000...	NP Inter (NDs) 1 of 2
Boron (mg/L)	SGWC-6	0.05	n/a	10/11/2017	0.025ND	No	63	96.83	n/a	0.000...	NP Inter (NDs) 1 of 2
Boron (mg/L)	SGWC-7	0.05	n/a	10/11/2017	0.026	No	63	96.83	n/a	0.000...	NP Inter (NDs) 1 of 2
Boron (mg/L)	SGWC-8	0.05	n/a	10/12/2017	0.075	Yes	63	96.83	n/a	0.000...	NP Inter (NDs) 1 of 2
Boron (mg/L)	SGWC-9	0.05	n/a	10/12/2017	1.8	Yes	63	96.83	n/a	0.000...	NP Inter (NDs) 1 of 2
Calcium (mg/L)	SGWC-10	19	n/a	10/12/2017	1.2	No	60	0	n/a	0.000...	NP Inter (normality) ...
Calcium (mg/L)	SGWC-11	19	n/a	10/11/2017	2	No	60	0	n/a	0.000...	NP Inter (normality) ...
Calcium (mg/L)	SGWC-12	19	n/a	10/11/2017	23	Yes	60	0	n/a	0.000...	NP Inter (normality) ...
Calcium (mg/L)	SGWC-13	19	n/a	10/11/2017	16	No	60	0	n/a	0.000...	NP Inter (normality) ...
Calcium (mg/L)	SGWC-14	19	n/a	10/11/2017	44	Yes	60	0	n/a	0.000...	NP Inter (normality) ...
Calcium (mg/L)	SGWC-15	19	n/a	10/12/2017	17	No	60	0	n/a	0.000...	NP Inter (normality) ...
Calcium (mg/L)	SGWC-16	19	n/a	10/12/2017	1.1	No	60	0	n/a	0.000...	NP Inter (normality) ...
Calcium (mg/L)	SGWC-17	19	n/a	10/12/2017	48	Yes	60	0	n/a	0.000...	NP Inter (normality) ...
Calcium (mg/L)	SGWC-18	19	n/a	10/12/2017	43	Yes	60	0	n/a	0.000...	NP Inter (normality) ...
Calcium (mg/L)	SGWC-19	19	n/a	10/12/2017	39	Yes	60	0	n/a	0.000...	NP Inter (normality) ...
Calcium (mg/L)	SGWC-20	19	n/a	10/12/2017	17	No	60	0	n/a	0.000...	NP Inter (normality) ...
Calcium (mg/L)	SGWC-21	19	n/a	10/12/2017	31	Yes	60	0	n/a	0.000...	NP Inter (normality) ...
Calcium (mg/L)	SGWC-22	19	n/a	10/12/2017	27	Yes	60	0	n/a	0.000...	NP Inter (normality) ...
Calcium (mg/L)	SGWC-23	19	n/a	10/12/2017	31	Yes	60	0	n/a	0.000...	NP Inter (normality) ...
Calcium (mg/L)	SGWC-6	19	n/a	10/11/2017	6.5	No	60	0	n/a	0.000...	NP Inter (normality) ...
Calcium (mg/L)	SGWC-7	19	n/a	10/11/2017	22	Yes	60	0	n/a	0.000...	NP Inter (normality) ...
Calcium (mg/L)	SGWC-8	19	n/a	10/12/2017	51	Yes	60	0	n/a	0.000...	NP Inter (normality) ...
Calcium (mg/L)	SGWC-9	19	n/a	10/12/2017	55	Yes	60	0	n/a	0.000...	NP Inter (normality) ...
Chloride (mg/L)	SGWC-10	3.256	n/a	10/12/2017	8.5	Yes	61	0	x^(1/3)	0.000418	Param Inter 1 of 2
Chloride (mg/L)	SGWC-11	3.256	n/a	10/11/2017	7.4	Yes	61	0	x^(1/3)	0.000418	Param Inter 1 of 2
Chloride (mg/L)	SGWC-12	3.256	n/a	10/11/2017	8.8	Yes	61	0	x^(1/3)	0.000418	Param Inter 1 of 2
Chloride (mg/L)	SGWC-13	3.256	n/a	10/11/2017	5.7	Yes	61	0	x^(1/3)	0.000418	Param Inter 1 of 2
Chloride (mg/L)	SGWC-14	3.256	n/a	10/11/2017	10	Yes	61	0	x^(1/3)	0.000418	Param Inter 1 of 2
Chloride (mg/L)	SGWC-15	3.256	n/a	10/12/2017	9.2	Yes	61	0	x^(1/3)	0.000418	Param Inter 1 of 2
Chloride (mg/L)	SGWC-16	3.256	n/a	10/12/2017	7.6	Yes	61	0	x^(1/3)	0.000418	Param Inter 1 of 2
Chloride (mg/L)	SGWC-17	3.256	n/a	10/12/2017	8	Yes	61	0	x^(1/3)	0.000418	Param Inter 1 of 2
Chloride (mg/L)	SGWC-18	3.256	n/a	10/12/2017	7.4	Yes	61	0	x^(1/3)	0.000418	Param Inter 1 of 2
Chloride (mg/L)	SGWC-19	3.256	n/a	10/12/2017	7.4	Yes	61	0	x^(1/3)	0.000418	Param Inter 1 of 2
Chloride (mg/L)	SGWC-20	3.256	n/a	10/12/2017	11	Yes	61	0	x^(1/3)	0.000418	Param Inter 1 of 2
Chloride (mg/L)	SGWC-21	3.256	n/a	10/12/2017	8.1	Yes	61	0	x^(1/3)	0.000418	Param Inter 1 of 2
Chloride (mg/L)	SGWC-22	3.256	n/a	10/12/2017	9.7	Yes	61	0	x^(1/3)	0.000418	Param Inter 1 of 2
Chloride (mg/L)	SGWC-23	3.256	n/a	10/12/2017	9.3	Yes	61	0	x^(1/3)	0.000418	Param Inter 1 of 2

Prediction Limit

Scherer Client: Golder Associates Data: Scherer Ash Pond_CCR Printed 1/23/2018, 7:55 PM

Constituent	Well	Upper Lim.	Lower Lim.	Date	Observ.	Sig.	Bq N	%NDs	Transform	Alpha	Method
Chloride (mg/L)	SGWC-6	3.256	n/a	10/11/2017	1.6	No	61	0	x^(1/3)	0.000418	Param Inter 1 of 2
Chloride (mg/L)	SGWC-7	3.256	n/a	10/11/2017	5	Yes	61	0	x^(1/3)	0.000418	Param Inter 1 of 2
Chloride (mg/L)	SGWC-8	3.256	n/a	10/12/2017	11	Yes	61	0	x^(1/3)	0.000418	Param Inter 1 of 2
Chloride (mg/L)	SGWC-9	3.256	n/a	10/12/2017	11	Yes	61	0	x^(1/3)	0.000418	Param Inter 1 of 2
Fluoride (mg/L)	SGWC-10	0.15	n/a	10/12/2017	0.1ND	No	63	79.37	n/a	0.000...	NP Inter (NDs) 1 of 2
Fluoride (mg/L)	SGWC-11	0.15	n/a	10/11/2017	0.1ND	No	63	79.37	n/a	0.000...	NP Inter (NDs) 1 of 2
Fluoride (mg/L)	SGWC-12	0.15	n/a	10/11/2017	0.1ND	No	63	79.37	n/a	0.000...	NP Inter (NDs) 1 of 2
Fluoride (mg/L)	SGWC-13	0.15	n/a	10/11/2017	0.1ND	No	63	79.37	n/a	0.000...	NP Inter (NDs) 1 of 2
Fluoride (mg/L)	SGWC-14	0.15	n/a	10/11/2017	0.1ND	No	63	79.37	n/a	0.000...	NP Inter (NDs) 1 of 2
Fluoride (mg/L)	SGWC-15	0.15	n/a	10/12/2017	0.13	No	63	79.37	n/a	0.000...	NP Inter (NDs) 1 of 2
Fluoride (mg/L)	SGWC-16	0.15	n/a	10/12/2017	0.1ND	No	63	79.37	n/a	0.000...	NP Inter (NDs) 1 of 2
Fluoride (mg/L)	SGWC-17	0.15	n/a	10/12/2017	0.1ND	No	63	79.37	n/a	0.000...	NP Inter (NDs) 1 of 2
Fluoride (mg/L)	SGWC-18	0.15	n/a	10/12/2017	0.5ND	No	63	79.37	n/a	0.000...	NP Inter (NDs) 1 of 2
Fluoride (mg/L)	SGWC-19	0.15	n/a	10/12/2017	0.1ND	No	63	79.37	n/a	0.000...	NP Inter (NDs) 1 of 2
Fluoride (mg/L)	SGWC-20	0.15	n/a	10/12/2017	0.18	No	63	79.37	n/a	0.000...	NP Inter (NDs) 1 of 2
Fluoride (mg/L)	SGWC-21	0.15	n/a	10/12/2017	0.1ND	No	63	79.37	n/a	0.000...	NP Inter (NDs) 1 of 2
Fluoride (mg/L)	SGWC-22	0.15	n/a	10/12/2017	0.1ND	No	63	79.37	n/a	0.000...	NP Inter (NDs) 1 of 2
Fluoride (mg/L)	SGWC-23	0.15	n/a	10/12/2017	0.1ND	No	63	79.37	n/a	0.000...	NP Inter (NDs) 1 of 2
Fluoride (mg/L)	SGWC-6	0.15	n/a	10/11/2017	0.089	No	63	79.37	n/a	0.000...	NP Inter (NDs) 1 of 2
Fluoride (mg/L)	SGWC-7	0.15	n/a	10/11/2017	0.21	Yes	63	79.37	n/a	0.000...	NP Inter (NDs) 1 of 2
Fluoride (mg/L)	SGWC-8	0.15	n/a	10/12/2017	0.47	Yes	63	79.37	n/a	0.000...	NP Inter (NDs) 1 of 2
Fluoride (mg/L)	SGWC-9	0.15	n/a	10/12/2017	0.1ND	No	63	79.37	n/a	0.000...	NP Inter (NDs) 1 of 2
pH (S.U.)	SGWC-10	7.106	4.954	10/12/2017	5.3	No	54	0	No	0.000209	Param Inter 1 of 2
pH (S.U.)	SGWC-11	7.106	4.954	10/11/2017	5.58	No	54	0	No	0.000209	Param Inter 1 of 2
pH (S.U.)	SGWC-12	7.106	4.954	10/11/2017	6.26	No	54	0	No	0.000209	Param Inter 1 of 2
pH (S.U.)	SGWC-13	7.106	4.954	10/11/2017	6.14	No	54	0	No	0.000209	Param Inter 1 of 2
pH (S.U.)	SGWC-14	7.106	4.954	10/11/2017	5.98	No	54	0	No	0.000209	Param Inter 1 of 2
pH (S.U.)	SGWC-15	7.106	4.954	10/12/2017	4.76	Yes	54	0	No	0.000209	Param Inter 1 of 2
pH (S.U.)	SGWC-16	7.106	4.954	10/12/2017	5.43	No	54	0	No	0.000209	Param Inter 1 of 2
pH (S.U.)	SGWC-17	7.106	4.954	10/12/2017	6.33	No	54	0	No	0.000209	Param Inter 1 of 2
pH (S.U.)	SGWC-18	7.106	4.954	10/12/2017	4.86	Yes	54	0	No	0.000209	Param Inter 1 of 2
pH (S.U.)	SGWC-19	7.106	4.954	10/12/2017	5.57	No	54	0	No	0.000209	Param Inter 1 of 2
pH (S.U.)	SGWC-20	7.106	4.954	10/12/2017	4.32	Yes	54	0	No	0.000209	Param Inter 1 of 2
pH (S.U.)	SGWC-21	7.106	4.954	10/12/2017	6.09	No	54	0	No	0.000209	Param Inter 1 of 2
pH (S.U.)	SGWC-22	7.106	4.954	10/12/2017	5.73	No	54	0	No	0.000209	Param Inter 1 of 2
pH (S.U.)	SGWC-23	7.106	4.954	10/12/2017	6.07	No	54	0	No	0.000209	Param Inter 1 of 2
pH (S.U.)	SGWC-6	7.106	4.954	10/11/2017	6.09	No	54	0	No	0.000209	Param Inter 1 of 2
pH (S.U.)	SGWC-7	7.106	4.954	10/11/2017	6.4	No	54	0	No	0.000209	Param Inter 1 of 2
pH (S.U.)	SGWC-8	7.106	4.954	10/12/2017	6.41	No	54	0	No	0.000209	Param Inter 1 of 2
pH (S.U.)	SGWC-9	7.106	4.954	10/12/2017	6.16	No	54	0	No	0.000209	Param Inter 1 of 2
Sulfate (mg/L)	SGWC-10	3.75	n/a	10/12/2017	1.3	No	63	49.21	n/a	0.000...	NP Inter (normality) ...
Sulfate (mg/L)	SGWC-11	3.75	n/a	10/11/2017	0.82	No	63	49.21	n/a	0.000...	NP Inter (normality) ...
Sulfate (mg/L)	SGWC-12	3.75	n/a	10/11/2017	33	Yes	63	49.21	n/a	0.000...	NP Inter (normality) ...
Sulfate (mg/L)	SGWC-13	3.75	n/a	10/11/2017	72	Yes	63	49.21	n/a	0.000...	NP Inter (normality) ...
Sulfate (mg/L)	SGWC-14	3.75	n/a	10/11/2017	190	Yes	63	49.21	n/a	0.000...	NP Inter (normality) ...
Sulfate (mg/L)	SGWC-15	3.75	n/a	10/12/2017	190	Yes	63	49.21	n/a	0.000...	NP Inter (normality) ...
Sulfate (mg/L)	SGWC-16	3.75	n/a	10/12/2017	20	Yes	63	49.21	n/a	0.000...	NP Inter (normality) ...
Sulfate (mg/L)	SGWC-17	3.75	n/a	10/12/2017	170	Yes	63	49.21	n/a	0.000...	NP Inter (normality) ...
Sulfate (mg/L)	SGWC-18	3.75	n/a	10/12/2017	430	Yes	63	49.21	n/a	0.000...	NP Inter (normality) ...
Sulfate (mg/L)	SGWC-19	3.75	n/a	10/12/2017	210	Yes	63	49.21	n/a	0.000...	NP Inter (normality) ...

Prediction Limit

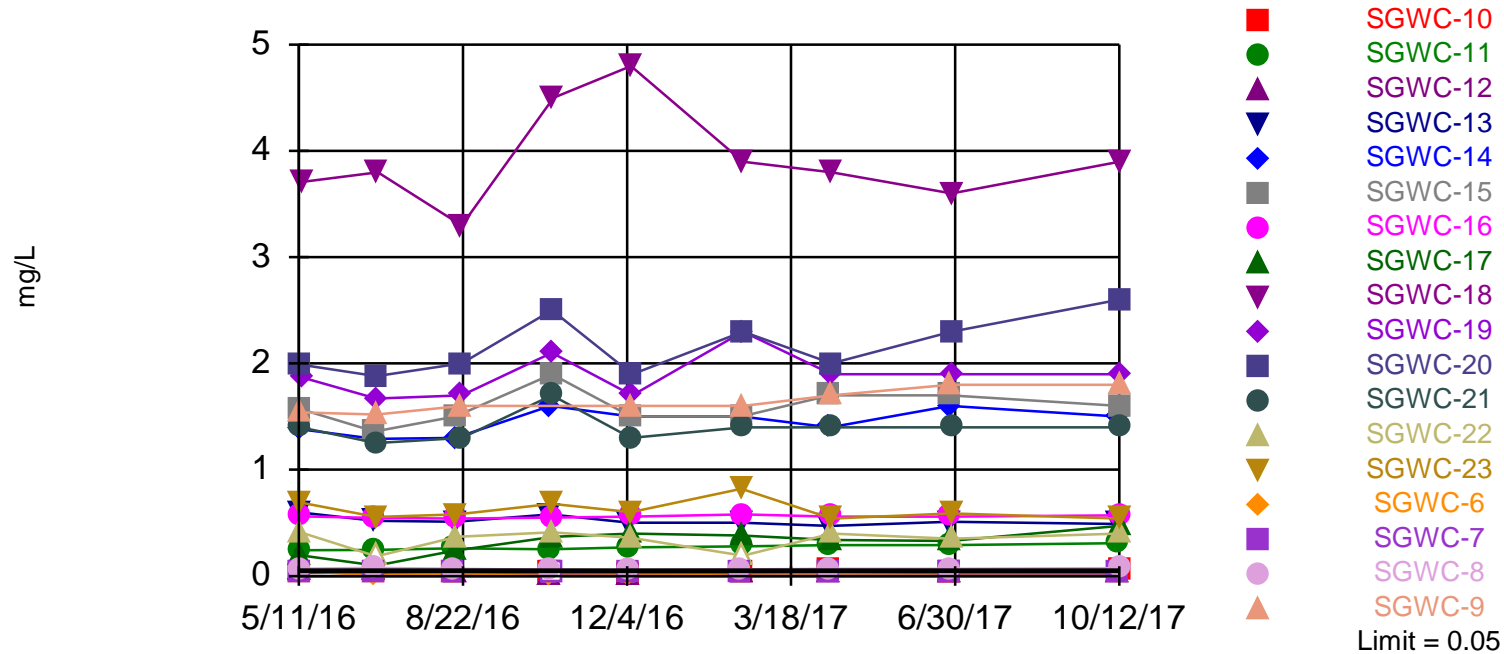
Scherer Client: Golder Associates Data: Scherer Ash Pond_CCR Printed 1/23/2018, 7:55 PM

Constituent	Well	Upper Lim.	Lower Lim.	Date	Observ.	Sig.	Bg N	%NDs	Transform	Alpha	Method
Sulfate (mg/L)	SGWC-20	3.75	n/a	10/12/2017	210	Yes	63	49.21	n/a	0.000...	NP Inter (normality) ...
Sulfate (mg/L)	SGWC-21	3.75	n/a	10/12/2017	76	Yes	63	49.21	n/a	0.000...	NP Inter (normality) ...
Sulfate (mg/L)	SGWC-22	3.75	n/a	10/12/2017	87	Yes	63	49.21	n/a	0.000...	NP Inter (normality) ...
Sulfate (mg/L)	SGWC-23	3.75	n/a	10/12/2017	120	Yes	63	49.21	n/a	0.000...	NP Inter (normality) ...
Sulfate (mg/L)	SGWC-6	3.75	n/a	10/11/2017	0.5ND	No	63	49.21	n/a	0.000...	NP Inter (normality) ...
Sulfate (mg/L)	SGWC-7	3.75	n/a	10/11/2017	15	Yes	63	49.21	n/a	0.000...	NP Inter (normality) ...
Sulfate (mg/L)	SGWC-8	3.75	n/a	10/12/2017	74	Yes	63	49.21	n/a	0.000...	NP Inter (normality) ...
Sulfate (mg/L)	SGWC-9	3.75	n/a	10/12/2017	310	Yes	63	49.21	n/a	0.000...	NP Inter (normality) ...
Total Dissolved Solids (mg/L)	SGWC-10	143.9	n/a	10/12/2017	46	No	63	0	No	0.000418	Param Inter 1 of 2
Total Dissolved Solids (mg/L)	SGWC-11	143.9	n/a	10/11/2017	56	No	63	0	No	0.000418	Param Inter 1 of 2
Total Dissolved Solids (mg/L)	SGWC-12	143.9	n/a	10/11/2017	190	Yes	63	0	No	0.000418	Param Inter 1 of 2
Total Dissolved Solids (mg/L)	SGWC-13	143.9	n/a	10/11/2017	170	Yes	63	0	No	0.000418	Param Inter 1 of 2
Total Dissolved Solids (mg/L)	SGWC-14	143.9	n/a	10/11/2017	340	Yes	63	0	No	0.000418	Param Inter 1 of 2
Total Dissolved Solids (mg/L)	SGWC-15	143.9	n/a	10/12/2017	330	Yes	63	0	No	0.000418	Param Inter 1 of 2
Total Dissolved Solids (mg/L)	SGWC-16	143.9	n/a	10/12/2017	68	No	63	0	No	0.000418	Param Inter 1 of 2
Total Dissolved Solids (mg/L)	SGWC-17	143.9	n/a	10/12/2017	380	Yes	63	0	No	0.000418	Param Inter 1 of 2
Total Dissolved Solids (mg/L)	SGWC-18	143.9	n/a	10/12/2017	640	Yes	63	0	No	0.000418	Param Inter 1 of 2
Total Dissolved Solids (mg/L)	SGWC-19	143.9	n/a	10/12/2017	370	Yes	63	0	No	0.000418	Param Inter 1 of 2
Total Dissolved Solids (mg/L)	SGWC-20	143.9	n/a	10/12/2017	350	Yes	63	0	No	0.000418	Param Inter 1 of 2
Total Dissolved Solids (mg/L)	SGWC-21	143.9	n/a	10/12/2017	290	Yes	63	0	No	0.000418	Param Inter 1 of 2
Total Dissolved Solids (mg/L)	SGWC-22	143.9	n/a	10/12/2017	230	Yes	63	0	No	0.000418	Param Inter 1 of 2
Total Dissolved Solids (mg/L)	SGWC-23	143.9	n/a	10/12/2017	280	Yes	63	0	No	0.000418	Param Inter 1 of 2
Total Dissolved Solids (mg/L)	SGWC-6	143.9	n/a	10/11/2017	82	No	63	0	No	0.000418	Param Inter 1 of 2
Total Dissolved Solids (mg/L)	SGWC-7	143.9	n/a	10/11/2017	210	Yes	63	0	No	0.000418	Param Inter 1 of 2
Total Dissolved Solids (mg/L)	SGWC-8	143.9	n/a	10/12/2017	400	Yes	63	0	No	0.000418	Param Inter 1 of 2
Total Dissolved Solids (mg/L)	SGWC-9	143.9	n/a	10/12/2017	560	Yes	63	0	No	0.000418	Param Inter 1 of 2

Hollow symbols indicate censored values.

Exceeds Limit: SGWC-11, SGWC-13,
SGWC-14. SGWC-15. SGWC-16. SGWC-17

Prediction Limit
Interwell Non-parametric

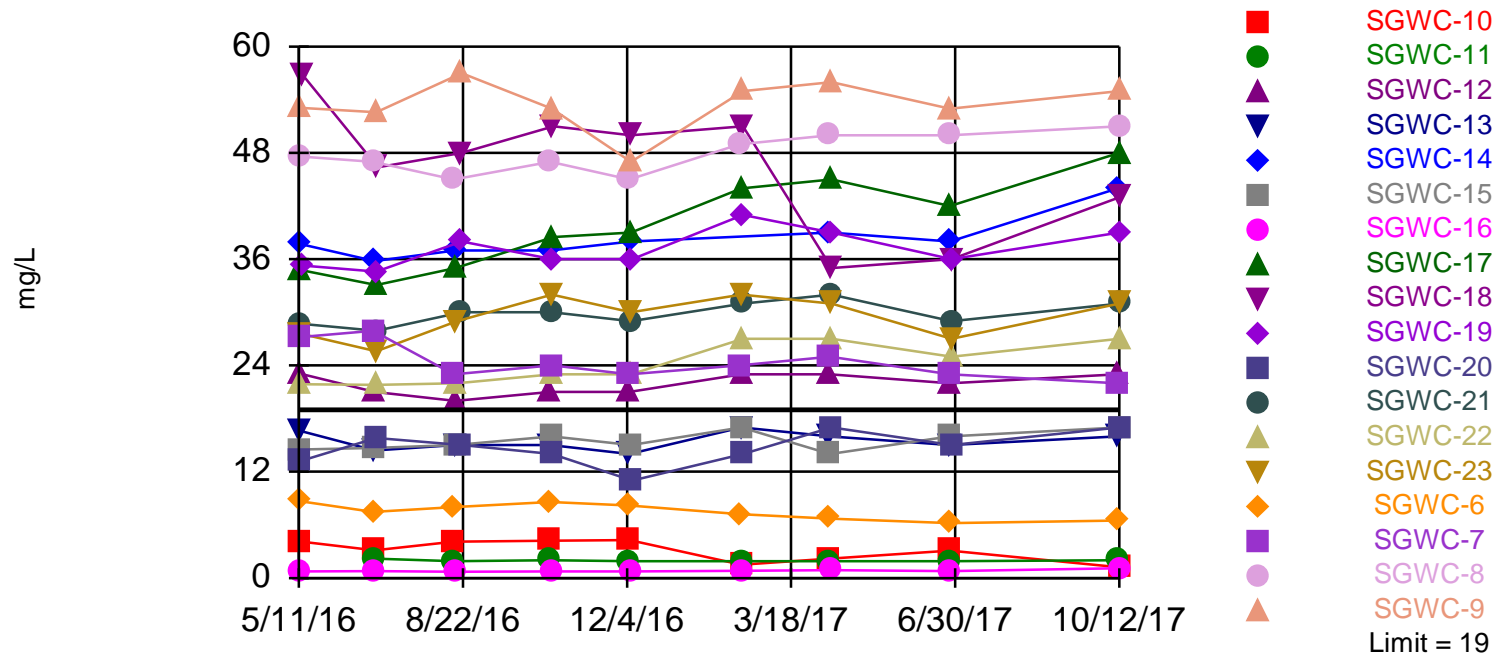


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 63 background values. 96.83% NDs. Annual per-constituent alpha = 0.01675. Individual comparison alpha = 0.0004691 (1 of 2). Comparing 18 points to limit.

Constituent: Boron Analysis Run 1/23/2018 7:52 PM View: Ash Pond CCR
Scherer Client: Golder Associates Data: Scherer Ash Pond_CCR

Exceeds Limit: SGWC-12, SGWC-14,
SGWC-17, SGWC-18, SGWC-19, SGWC-21

Prediction Limit
Interwell Non-parametric

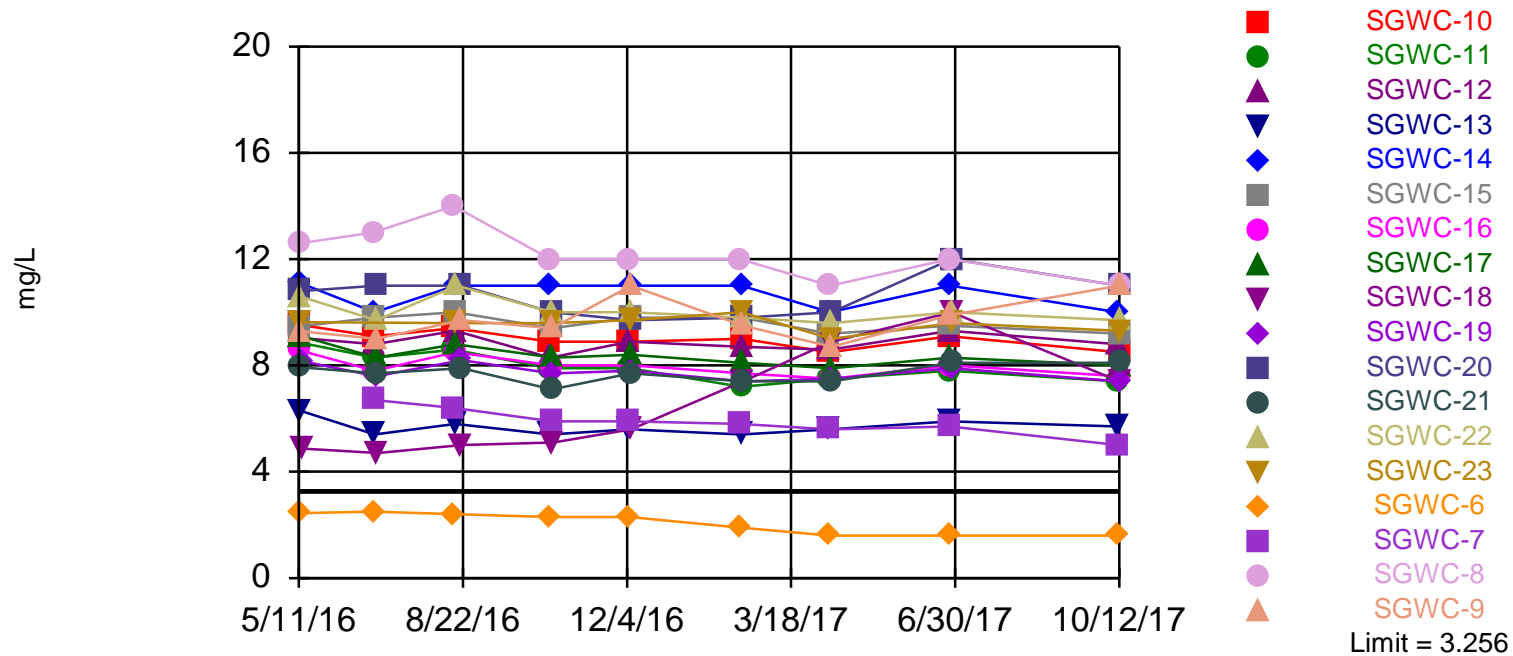


Non-parametric test used in lieu of parametric prediction limit because the Shapiro Francia normality test showed the data to be non-normal at the 0.01 alpha level. Limit is highest of 60 background values. Annual per-constituent alpha = 0.01812. Individual comparison alpha = 0.0005077 (1 of 2). Comparing 18 points to limit.

Constituent: Calcium Analysis Run 1/23/2018 7:52 PM View: Ash Pond CCR
Scherer Client: Golder Associates Data: Scherer Ash Pond_CCR

Exceeds Limit: SGWC-10, SGWC-11,
SGWC-12. SGWC-13. SGWC-14. SGWC-15

Prediction Limit
Interwell Parametric



Background Data Summary (based on cube root transformation): Mean=1.236, Std. Dev.=0.1142, n=61. Normality test: Shapiro Francia @alpha = 0.01, calculated = 0.9527, critical = 0.946. Kappa = 2.154 (c=7, w=18, 1 of 2, event alpha = 0.05132). Report alpha = 0.007498. Individual comparison alpha = 0.000418. Comparing 18 points to limit.

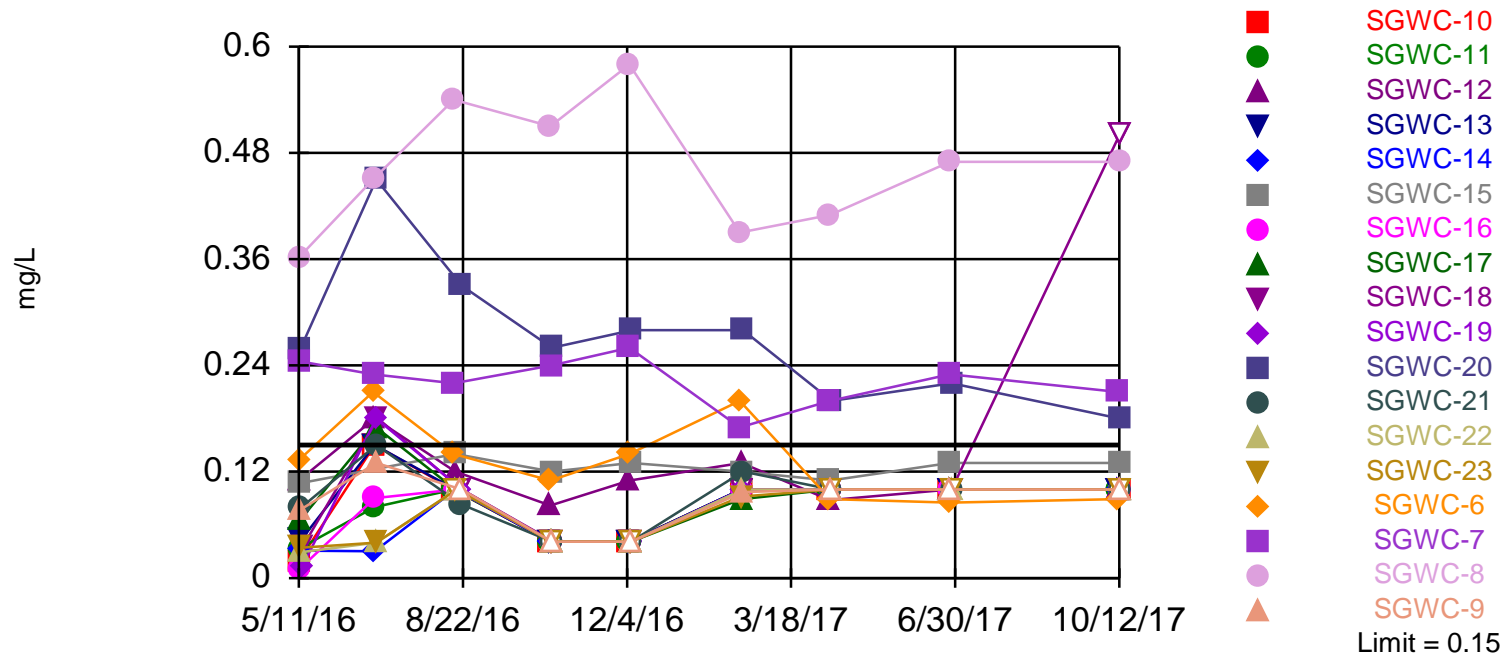
Constituent: Chloride Analysis Run 1/23/2018 7:52 PM View: Ash Pond CCR
Scherer Client: Golder Associates Data: Scherer Ash Pond_CCR

Hollow symbols indicate censored values.

Exceeds Limit: SGWC-7, SGWC-8

Prediction Limit

Interwell Non-parametric



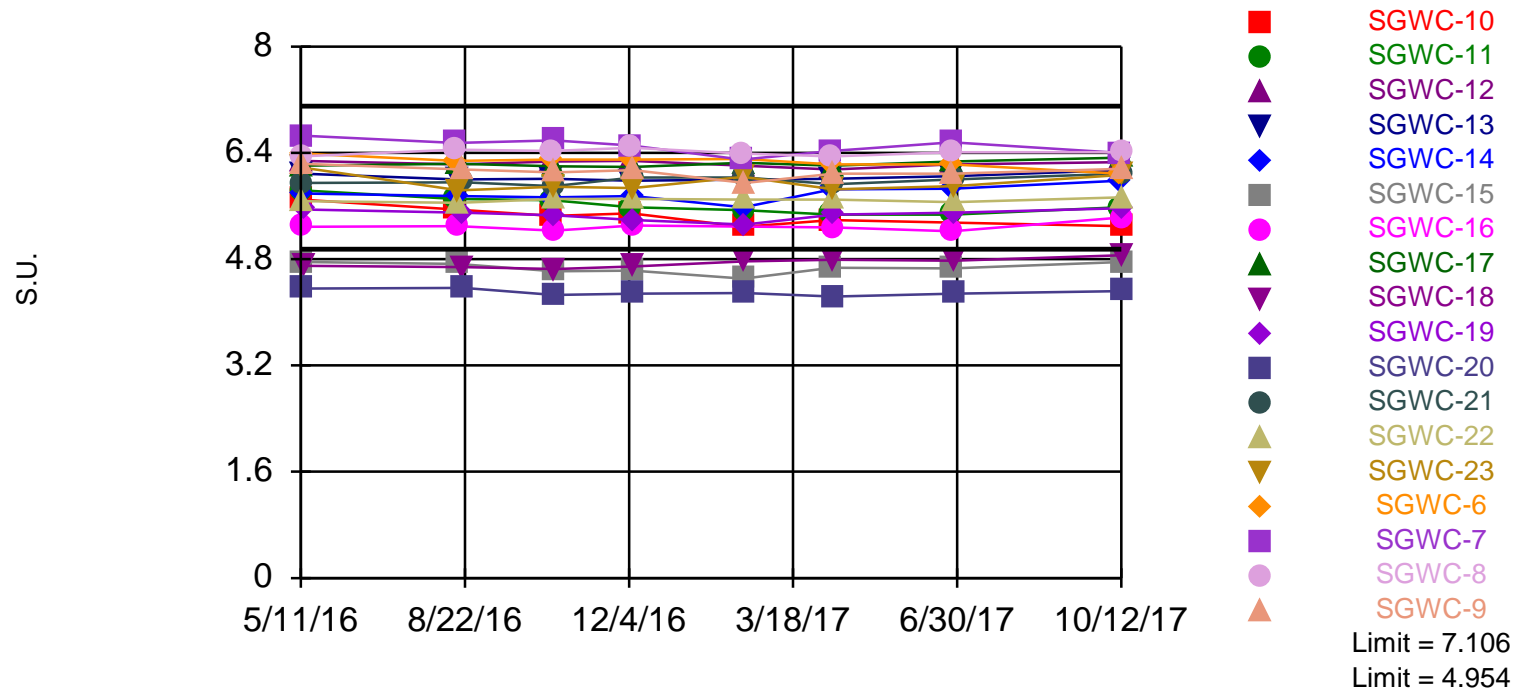
Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 63 background values. 79.37% NDs. Annual per-constituent alpha = 0.01675. Individual comparison alpha = 0.0004691 (1 of 2). Comparing 18 points to limit.

Constituent: Fluoride Analysis Run 1/23/2018 7:52 PM View: Ash Pond CCR

Scherer Client: Golder Associates Data: Scherer Ash Pond_CCR

Exceeds Limits: SGWC-15, SGWC-18,
SGWC-20

Prediction Limit
Interwell Parametric

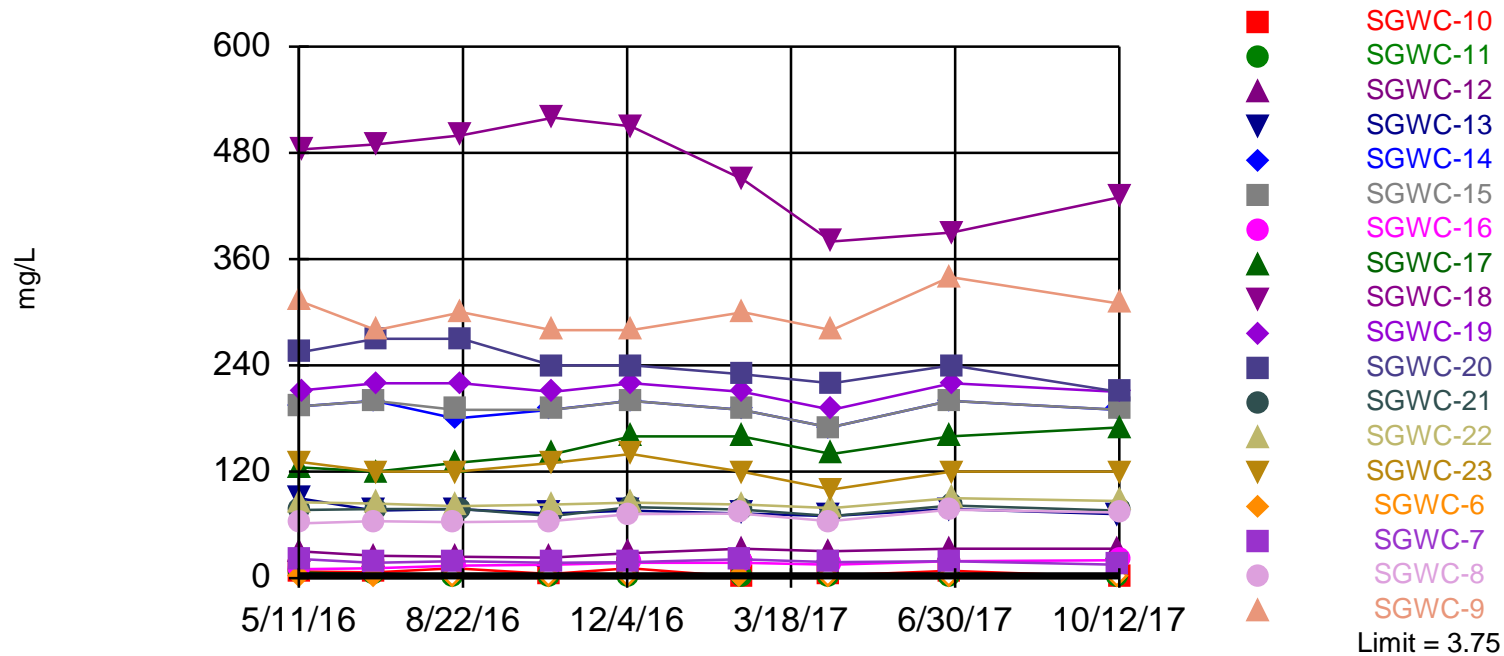


Background Data Summary: Mean=6.03, Std. Dev.=0.4956, n=54. Normality test: Shapiro Francia @alpha = 0.01, calculated = 0.9507, critical = 0.939. Kappa = 2.172 (c=7, w=18, 1 of 2, event alpha = 0.05132). Report alpha = 0.007498. Individual comparison alpha = 0.000209. Comparing 18 points to limit.

Hollow symbols indicate censored values.

Exceeds Limit: SGWC-12, SGWC-13,
SGWC-14. SGWC-15. SGWC-16. SGWC-17

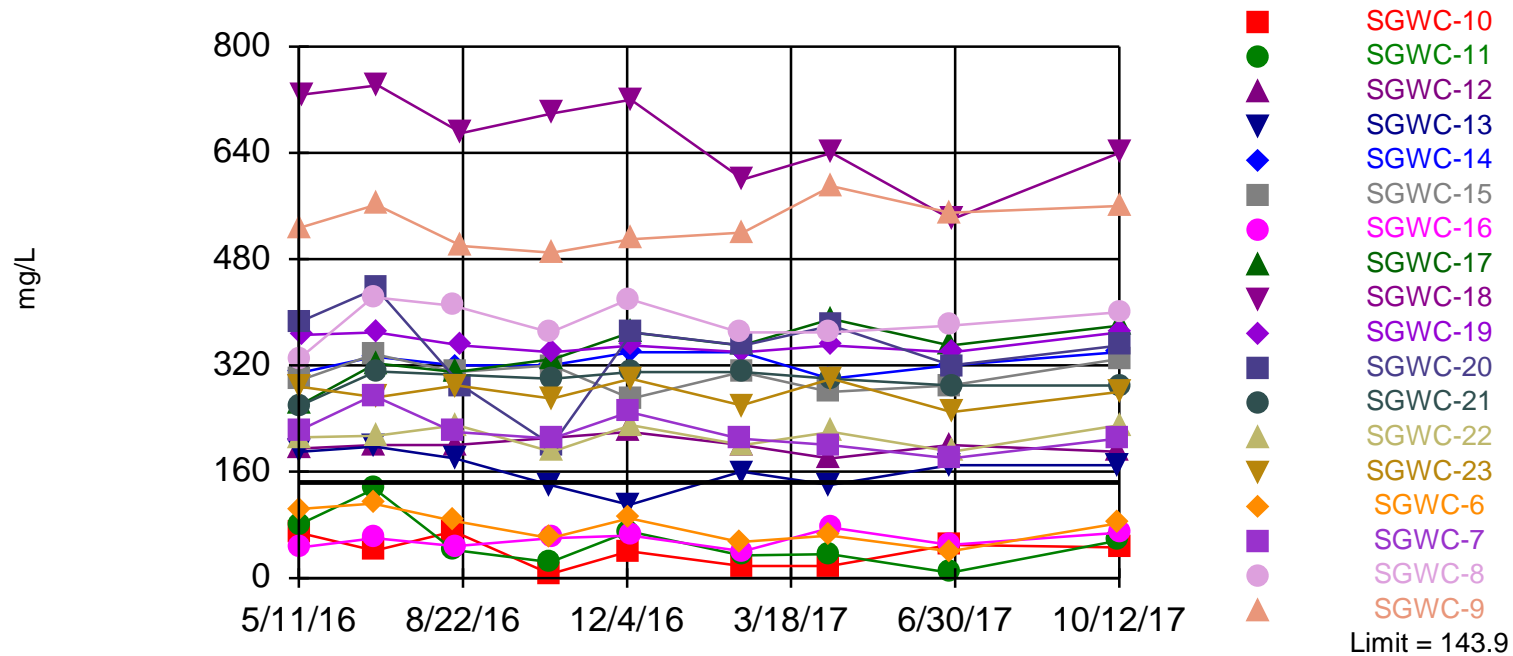
Prediction Limit
Interwell Non-parametric



Non-parametric test used in lieu of parametric prediction limit because the Shapiro Francia normality test showed the data to be non-normal at the 0.01 alpha level. Limit is highest of 63 background values. 49.21% NDs. Annual per-constituent alpha = 0.01675. Individual comparison alpha = 0.0004691 (1 of 2). Comparing 18 points to limit.

Exceeds Limit: SGWC-12, SGWC-13,
SGWC-14. SGWC-15. SGWC-17. SGWC-18

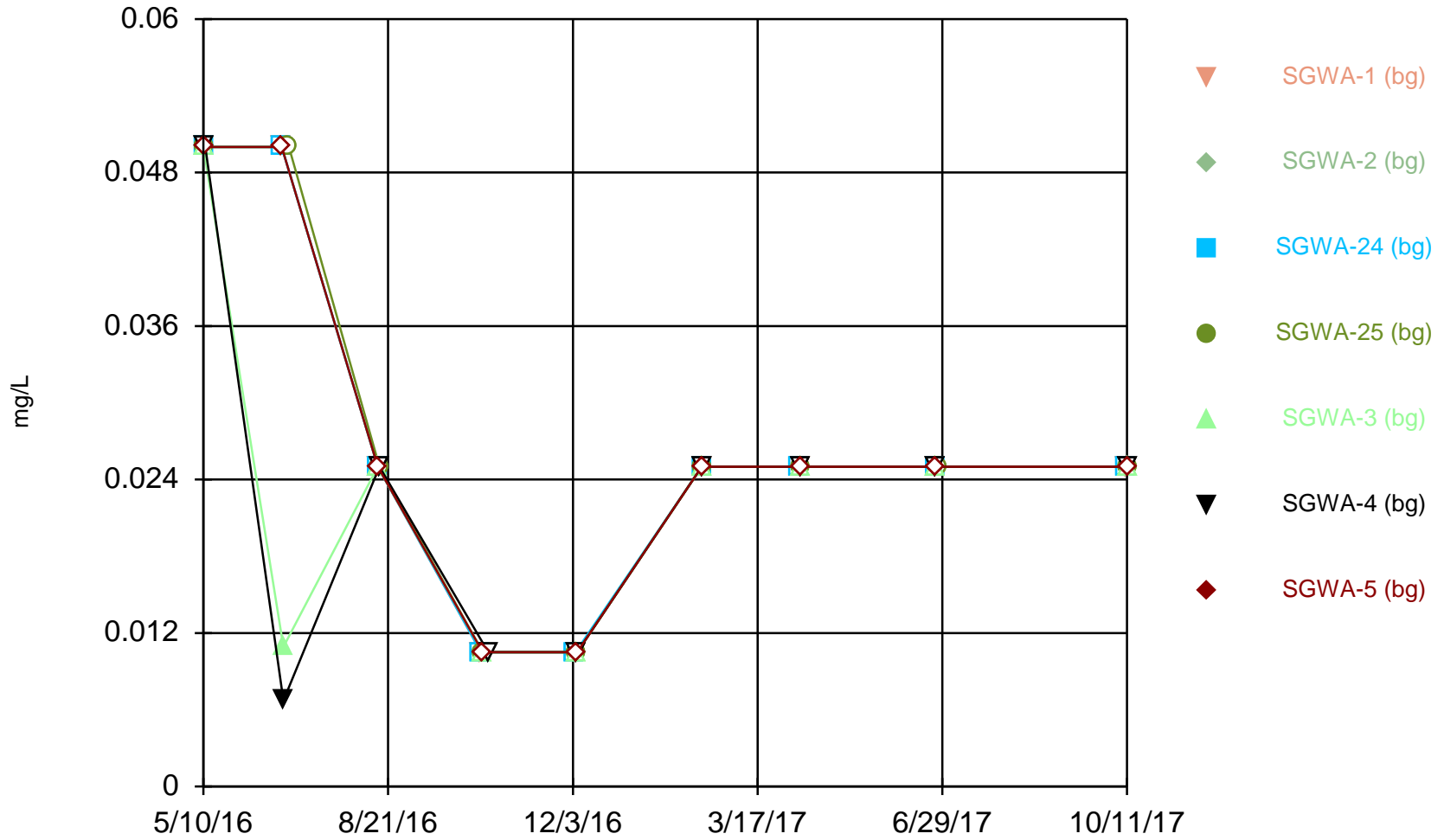
Prediction Limit
Interwell Parametric



Background Data Summary: Mean=79.06, Std. Dev.=30.13, n=63. Normality test: Shapiro Francia @alpha = 0.01, calculated = 0.9627, critical = 0.947. Kappa = 2.151 (c=7, w=18, 1 of 2, event alpha = 0.05132). Report alpha = 0.007498. Individual comparison alpha = 0.000418. Comparing 18 points to limit.

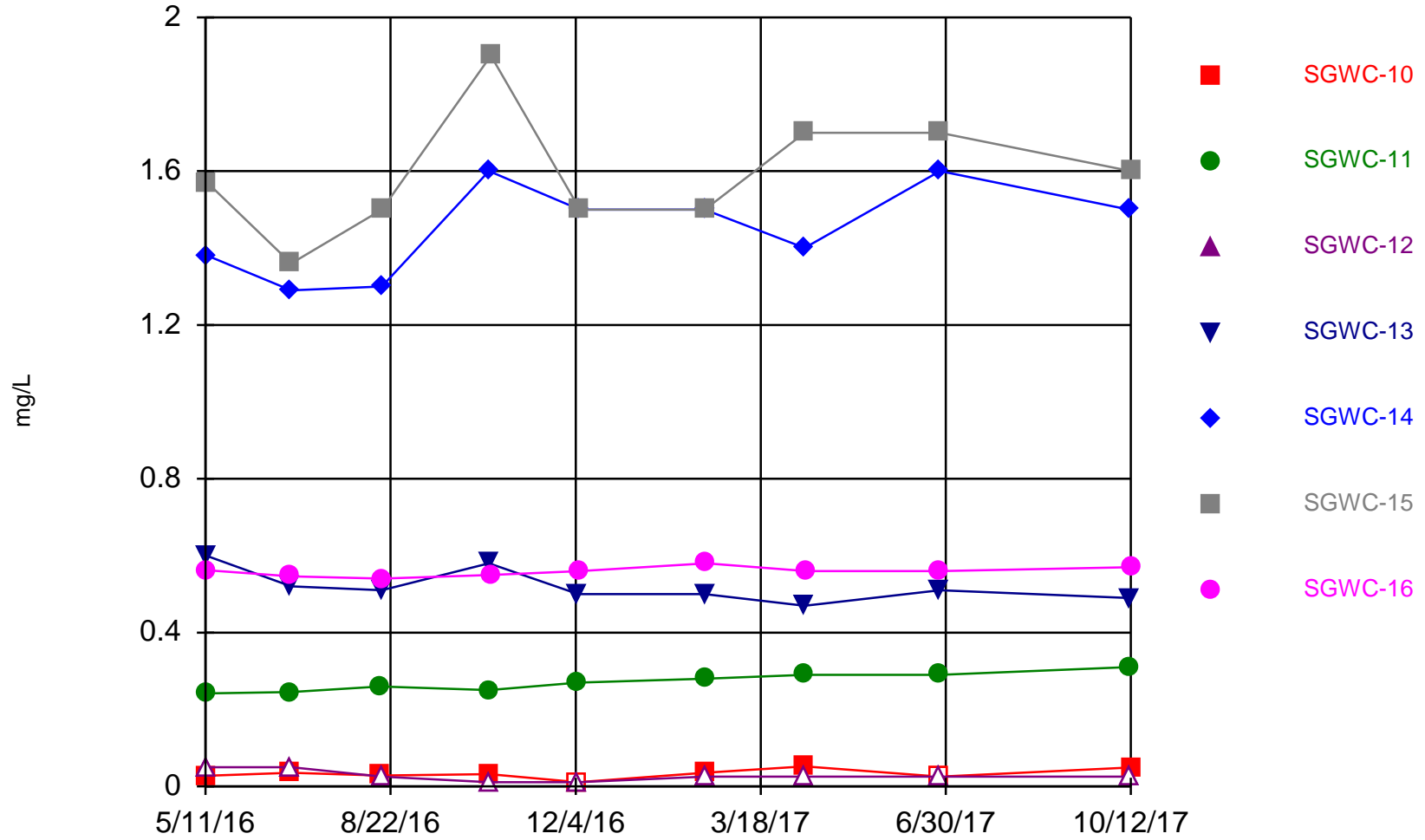
Constituent: Total Dissolved Solids Analysis Run 1/23/2018 7:52 PM View: Ash Pond CCR
Scherer Client: Golder Associates Data: Scherer Ash Pond_CCR

Time Series



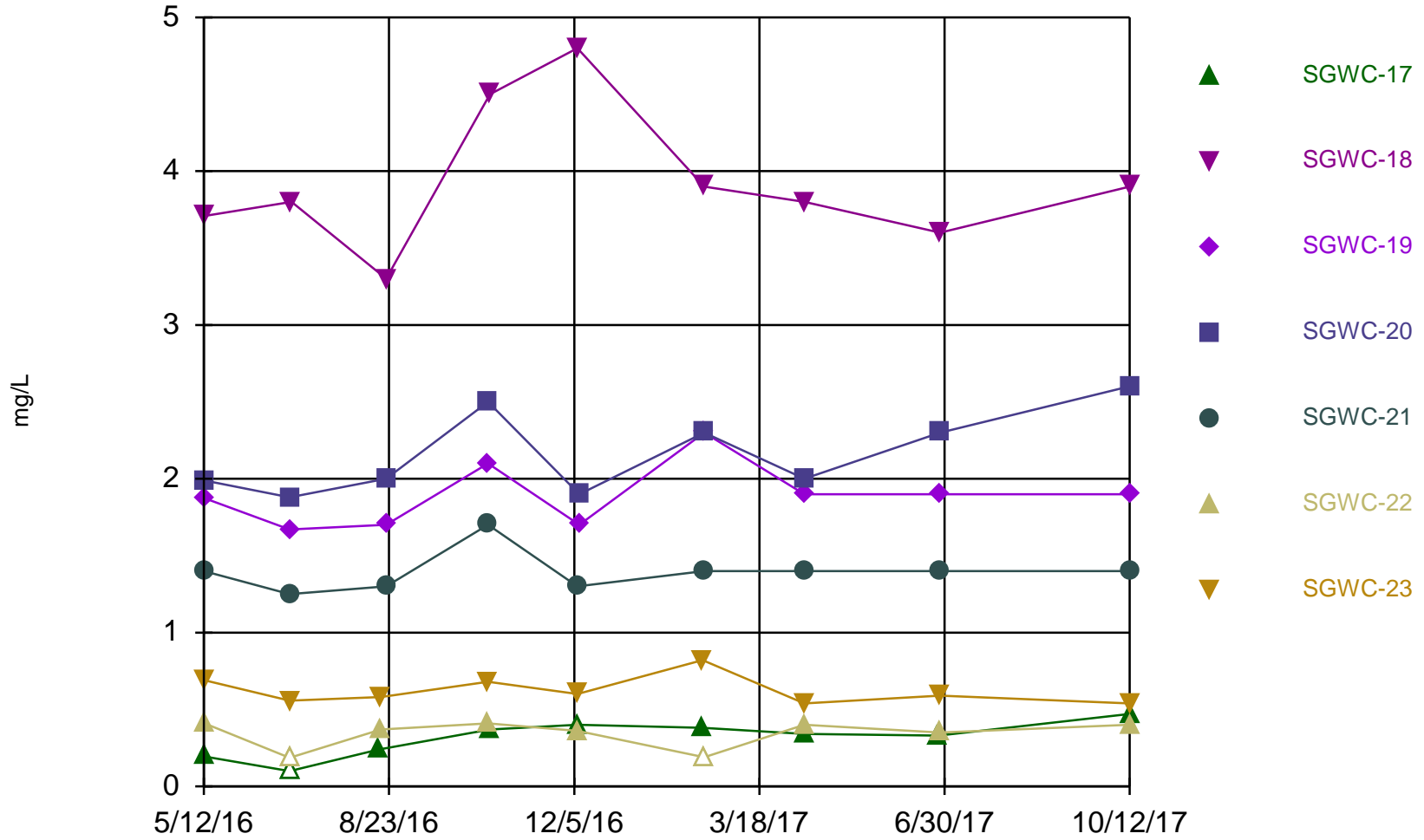
Constituent: Boron Analysis Run 1/23/2018 7:57 PM View: Ash Pond CCR
Scherer Client: Golder Associates Data: Scherer Ash Pond_CCR

Time Series



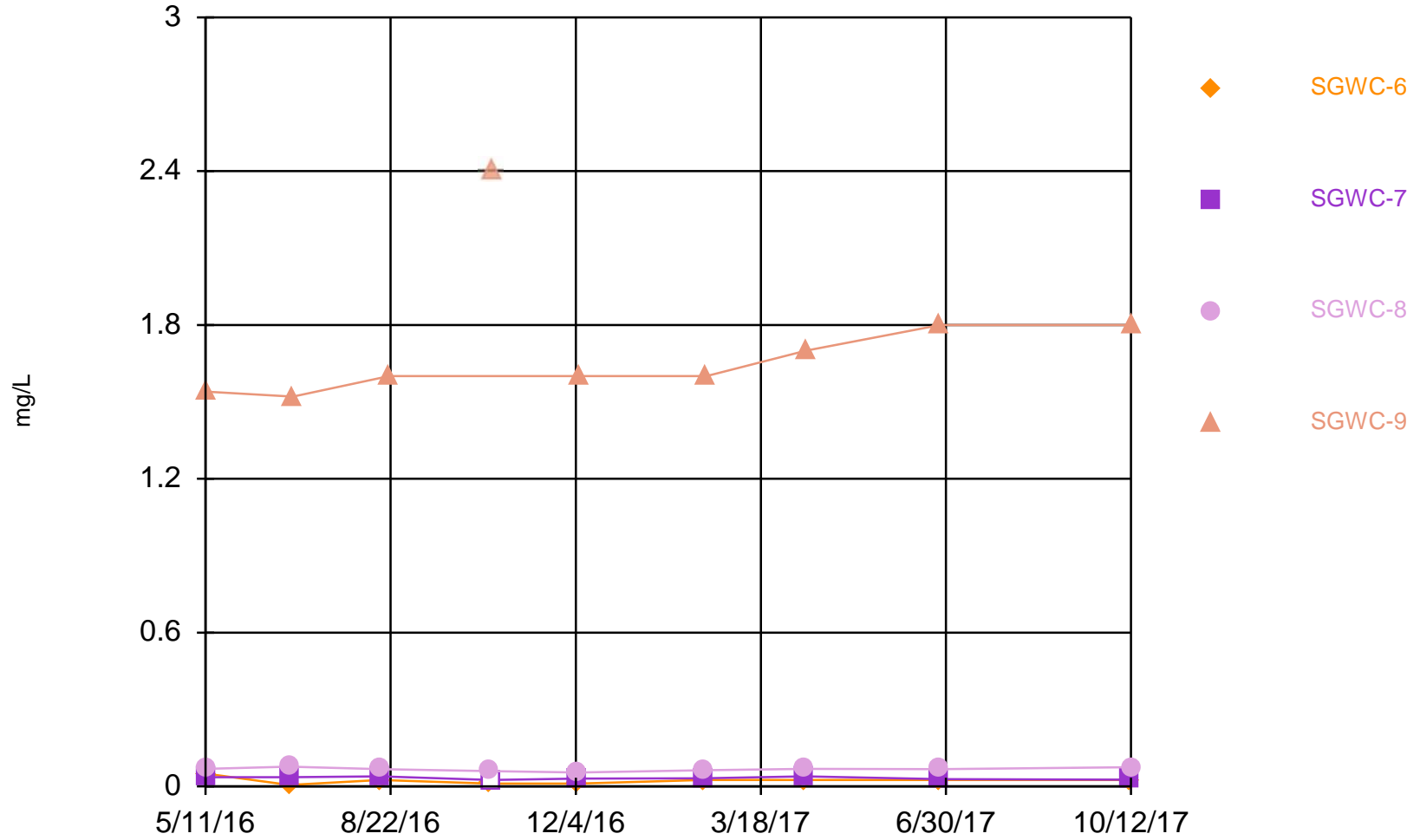
Constituent: Boron Analysis Run 1/23/2018 7:57 PM View: Ash Pond CCR
Scherer Client: Golder Associates Data: Scherer Ash Pond_CCR

Time Series



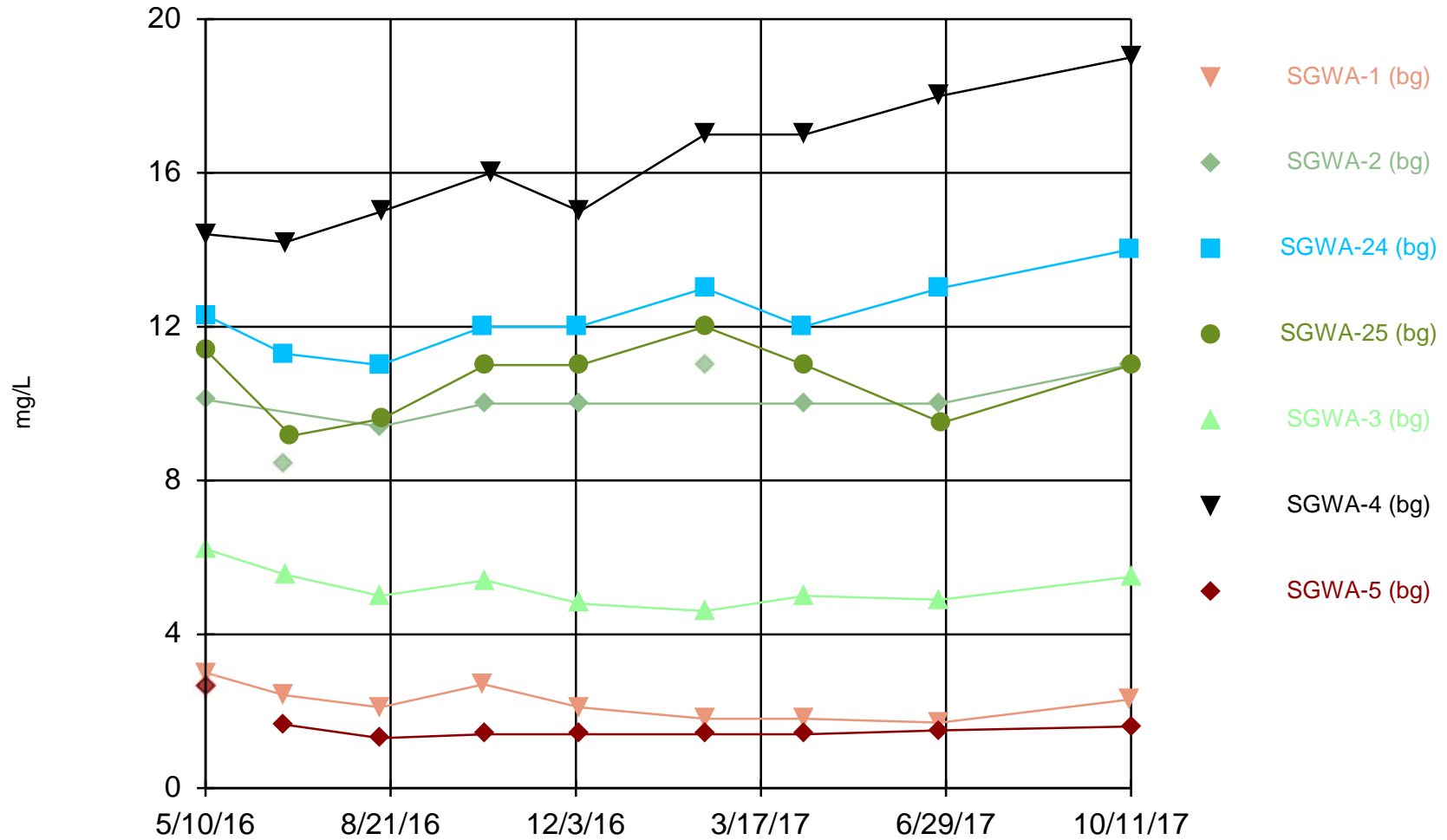
Constituent: Boron Analysis Run 1/23/2018 7:57 PM View: Ash Pond CCR
Scherer Client: Golder Associates Data: Scherer Ash Pond_CCR

Time Series



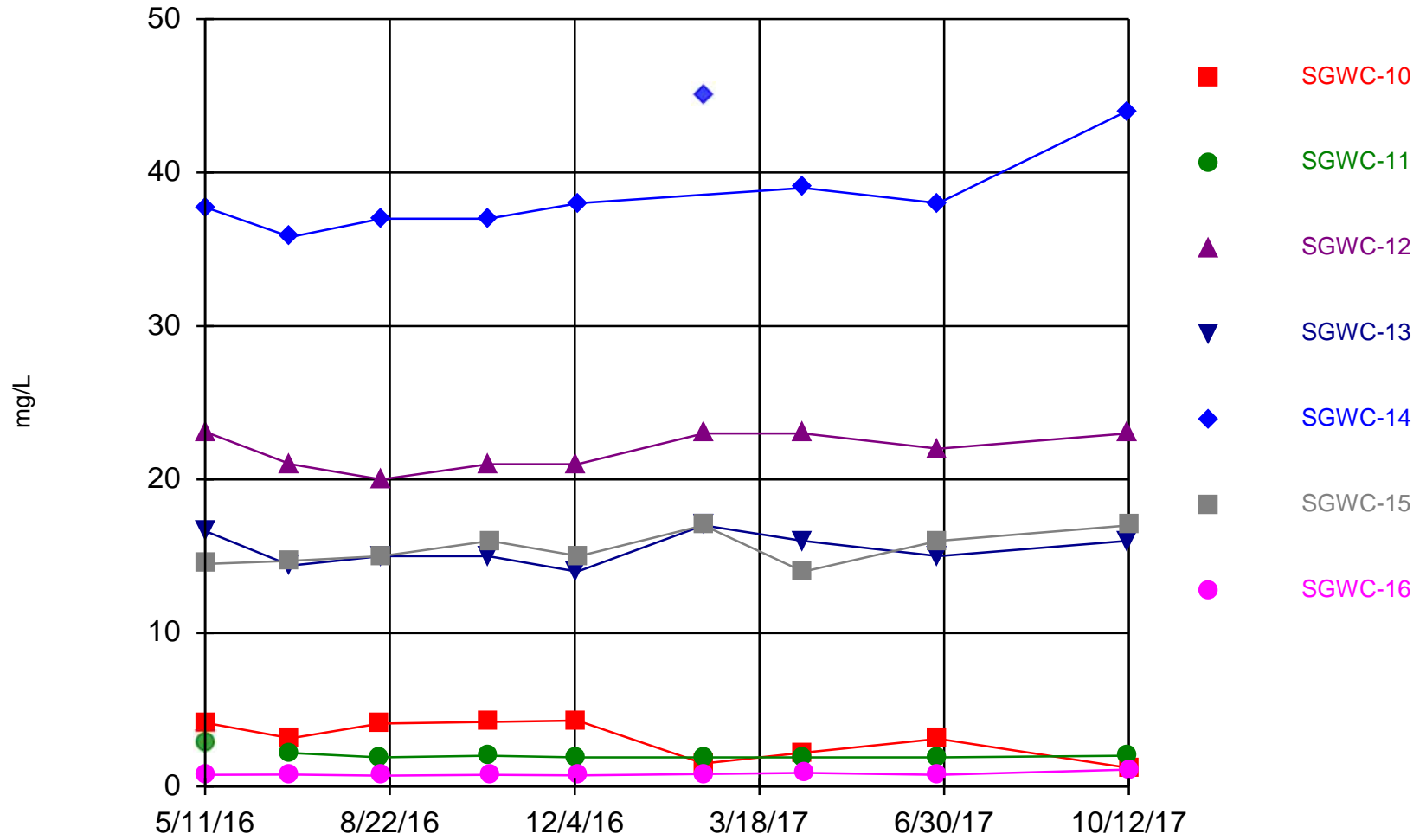
Constituent: Boron Analysis Run 1/23/2018 7:57 PM View: Ash Pond CCR
Scherer Client: Golder Associates Data: Scherer Ash Pond_CCR

Time Series



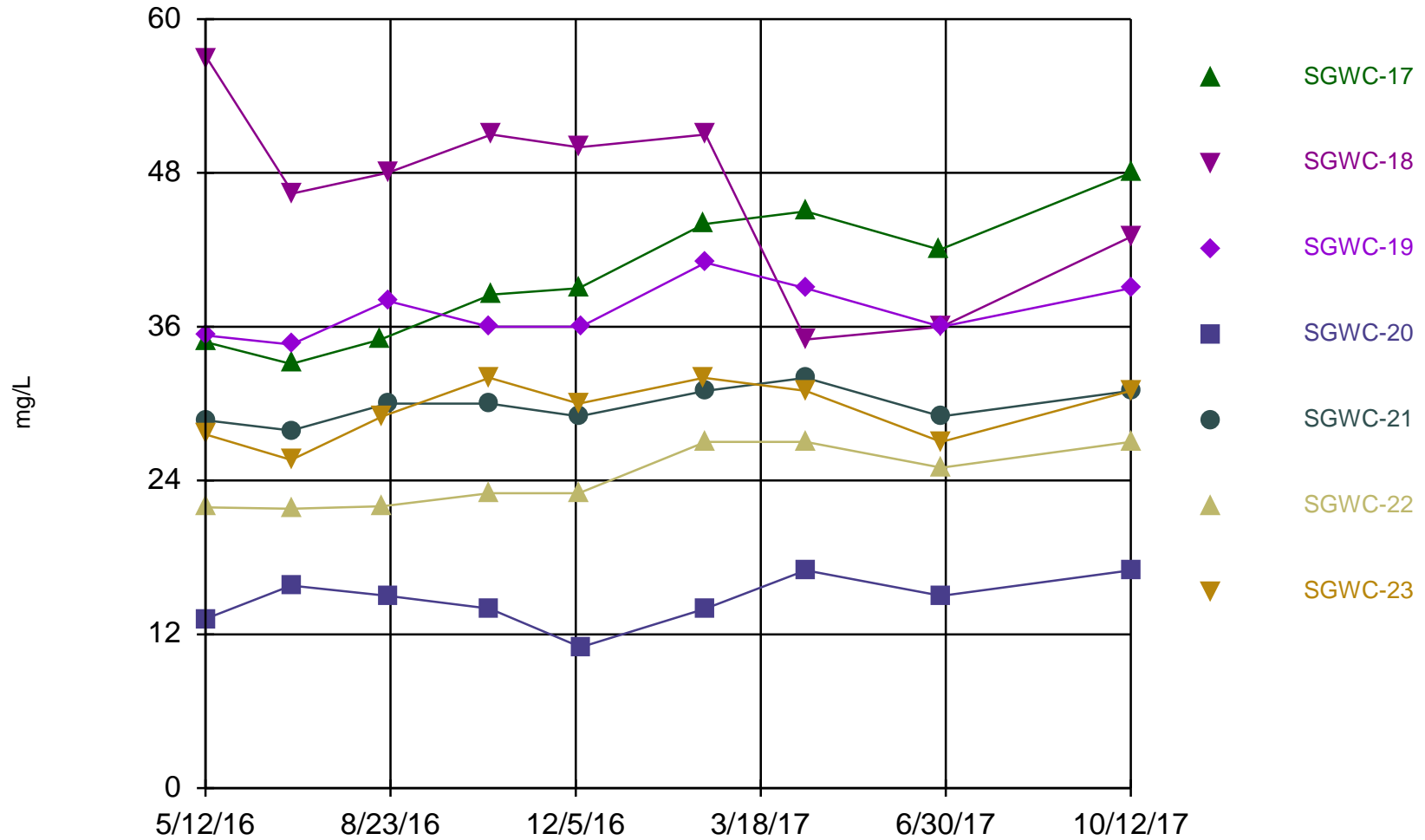
Constituent: Calcium Analysis Run 1/23/2018 7:57 PM View: Ash Pond CCR
Scherer Client: Golder Associates Data: Scherer Ash Pond_CCR

Time Series



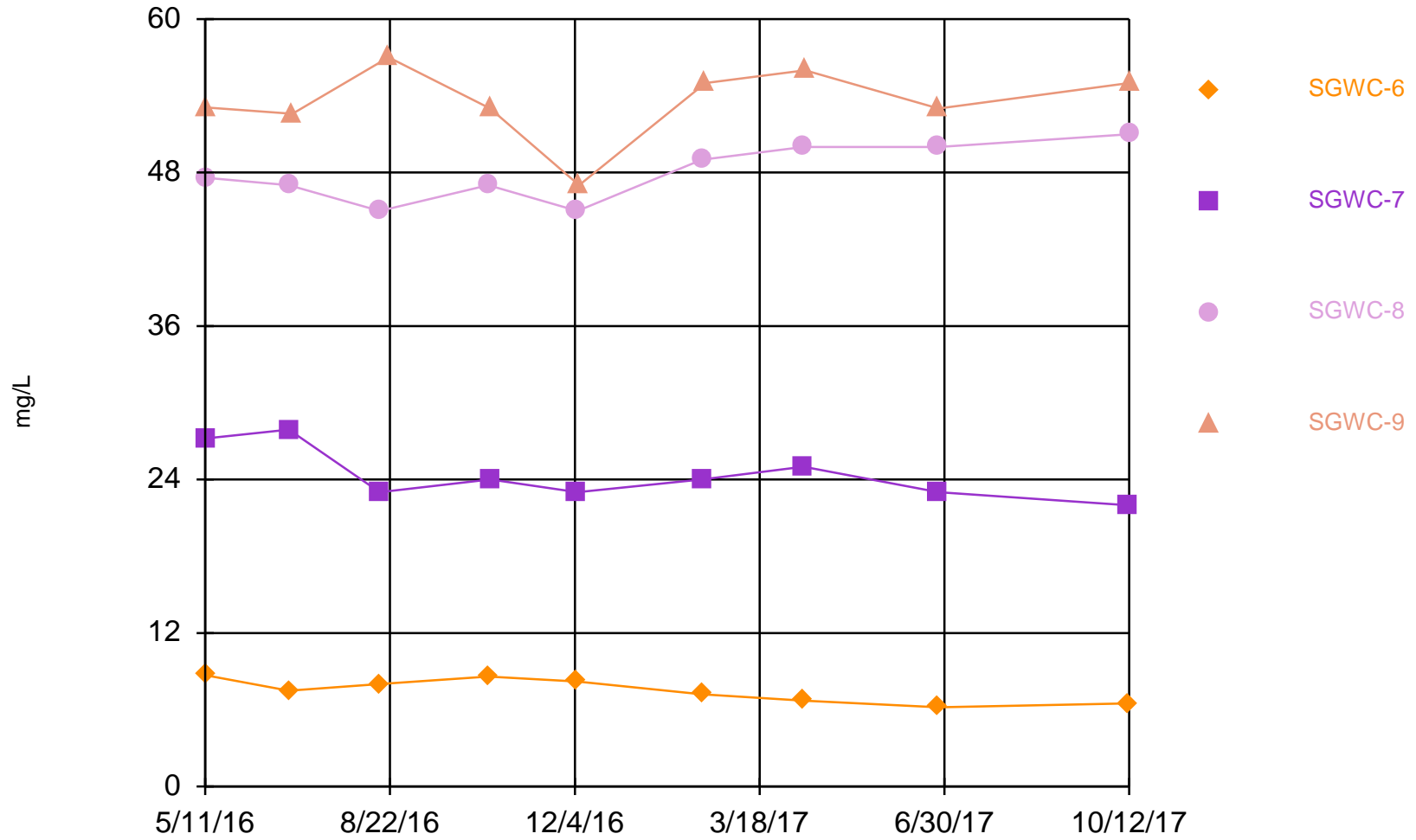
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Scherer Client: Golder Associates Data: Scherer Ash Pond_CCR

Time Series



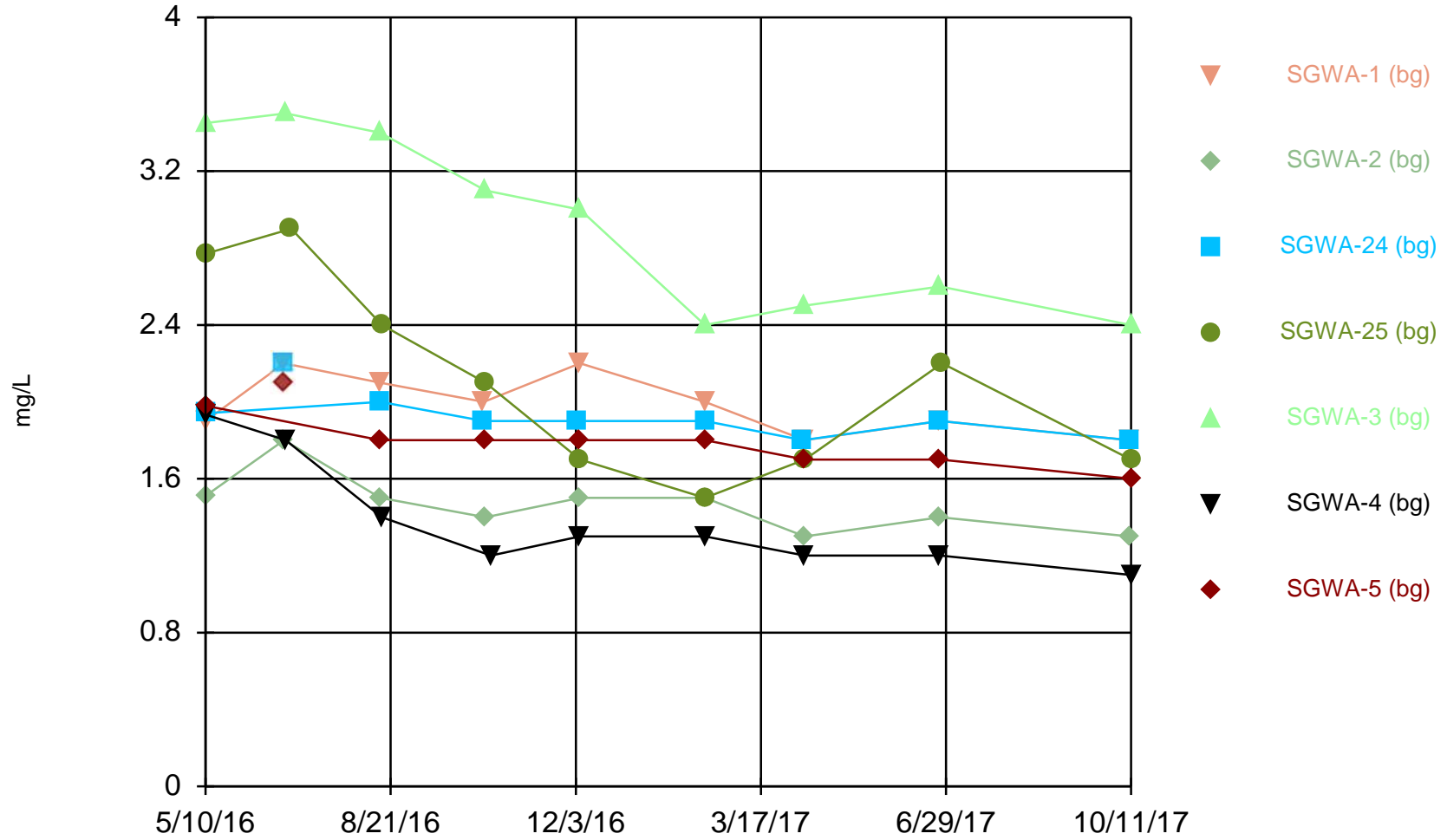
Constituent: Calcium Analysis Run 1/23/2018 7:57 PM View: Ash Pond CCR
Scherer Client: Golder Associates Data: Scherer Ash Pond_CCR

Time Series



Constituent: Calcium Analysis Run 1/23/2018 7:57 PM View: Ash Pond CCR
Scherer Client: Golder Associates Data: Scherer Ash Pond_CCR

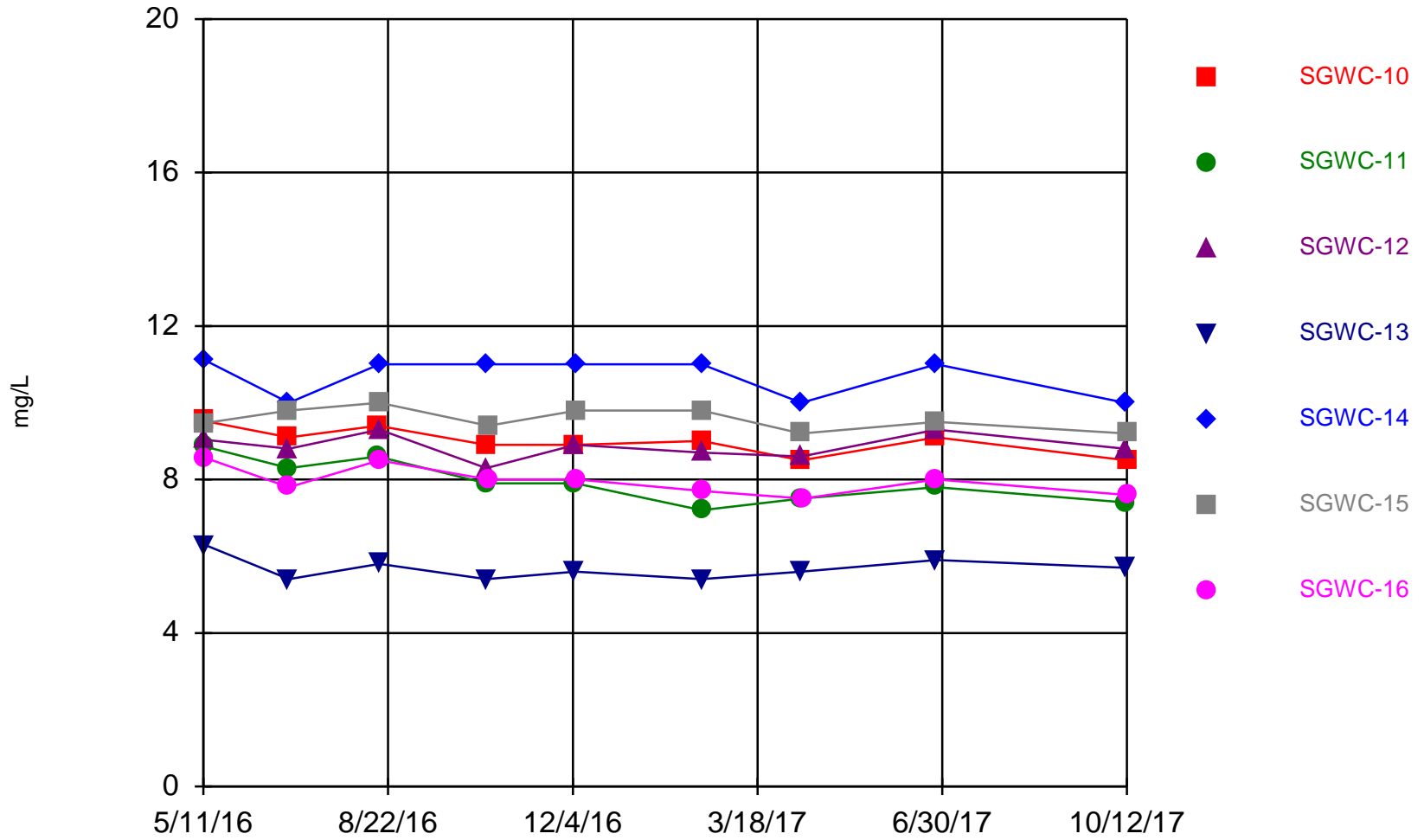
Time Series



Constituent: Chloride Analysis Run 1/23/2018 7:57 PM View: Ash Pond CCR

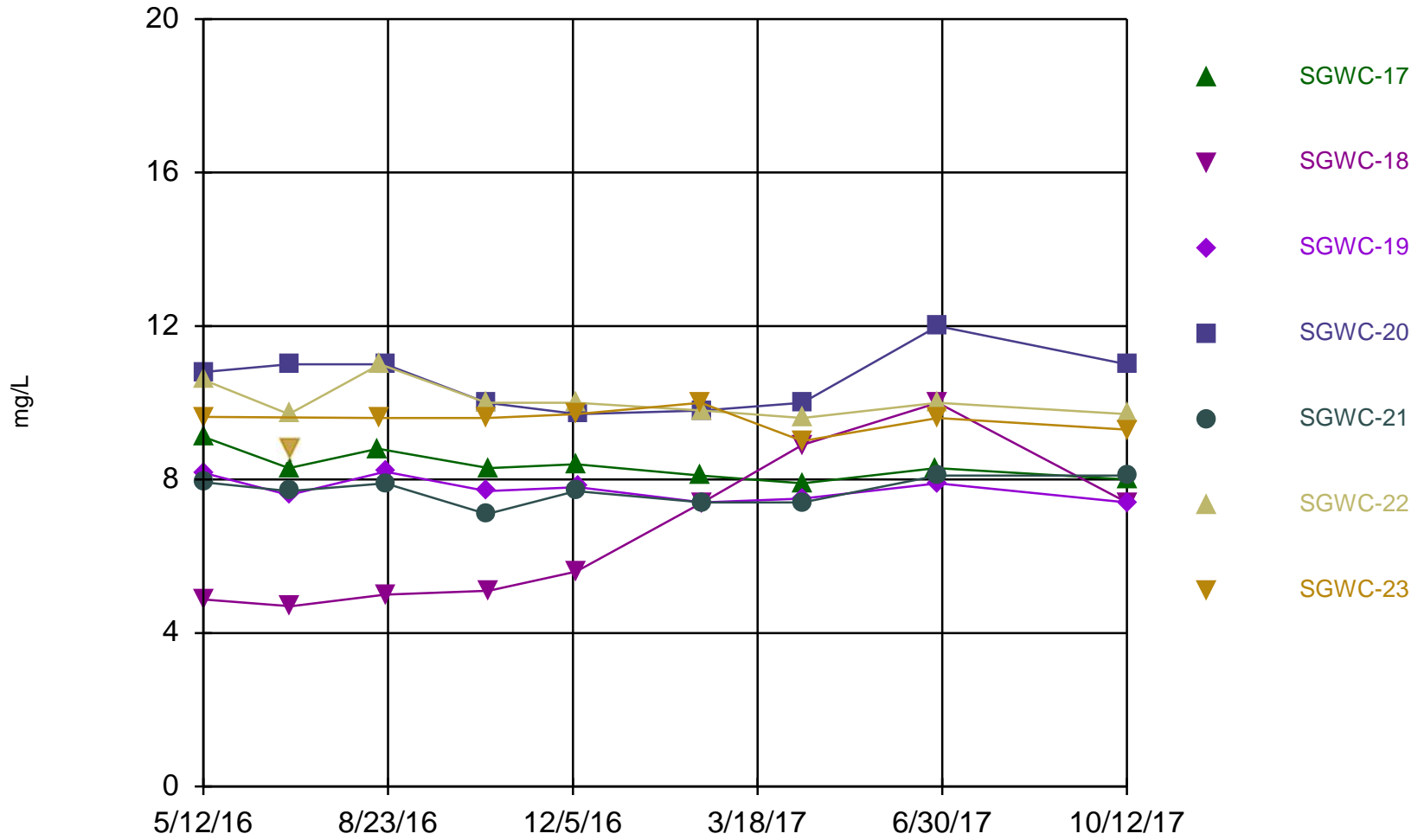
Scherer Client: Golder Associates Data: Scherer Ash Pond_CCR

Time Series



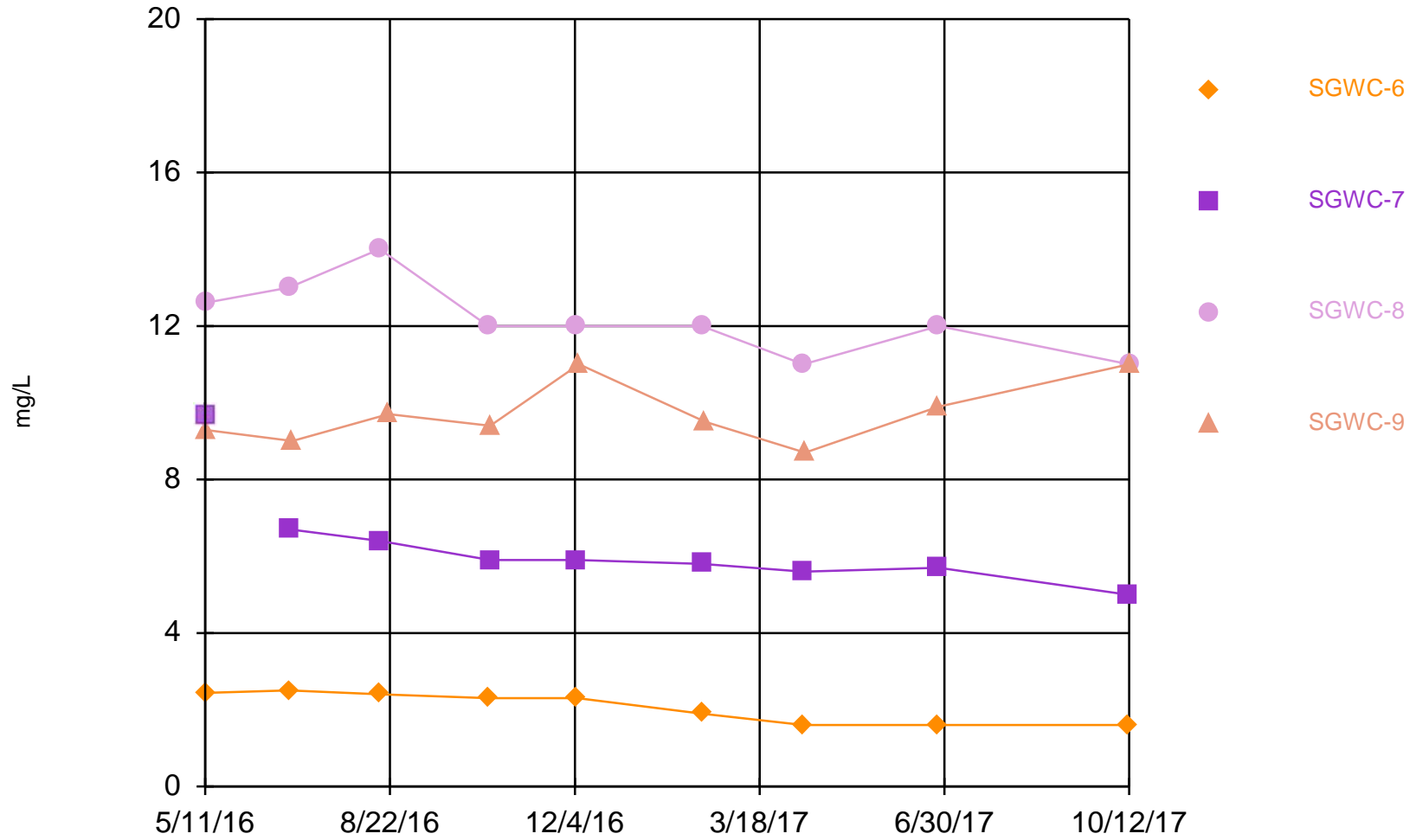
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Scherer Client: Golder Associates Data: Scherer Ash Pond_CCR

Time Series



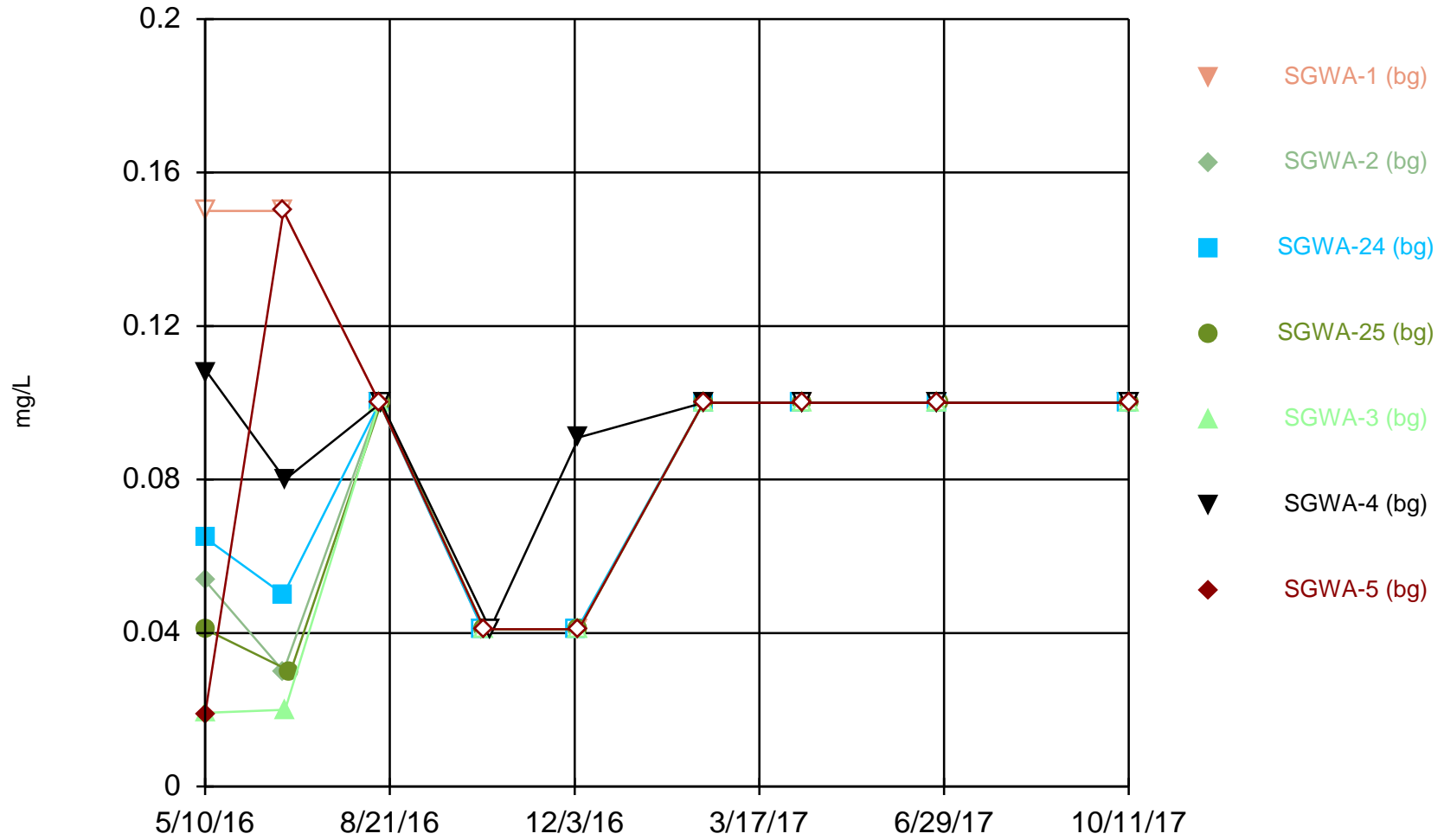
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Scherer Client: Golder Associates Data: Scherer Ash Pond_CCR

Time Series



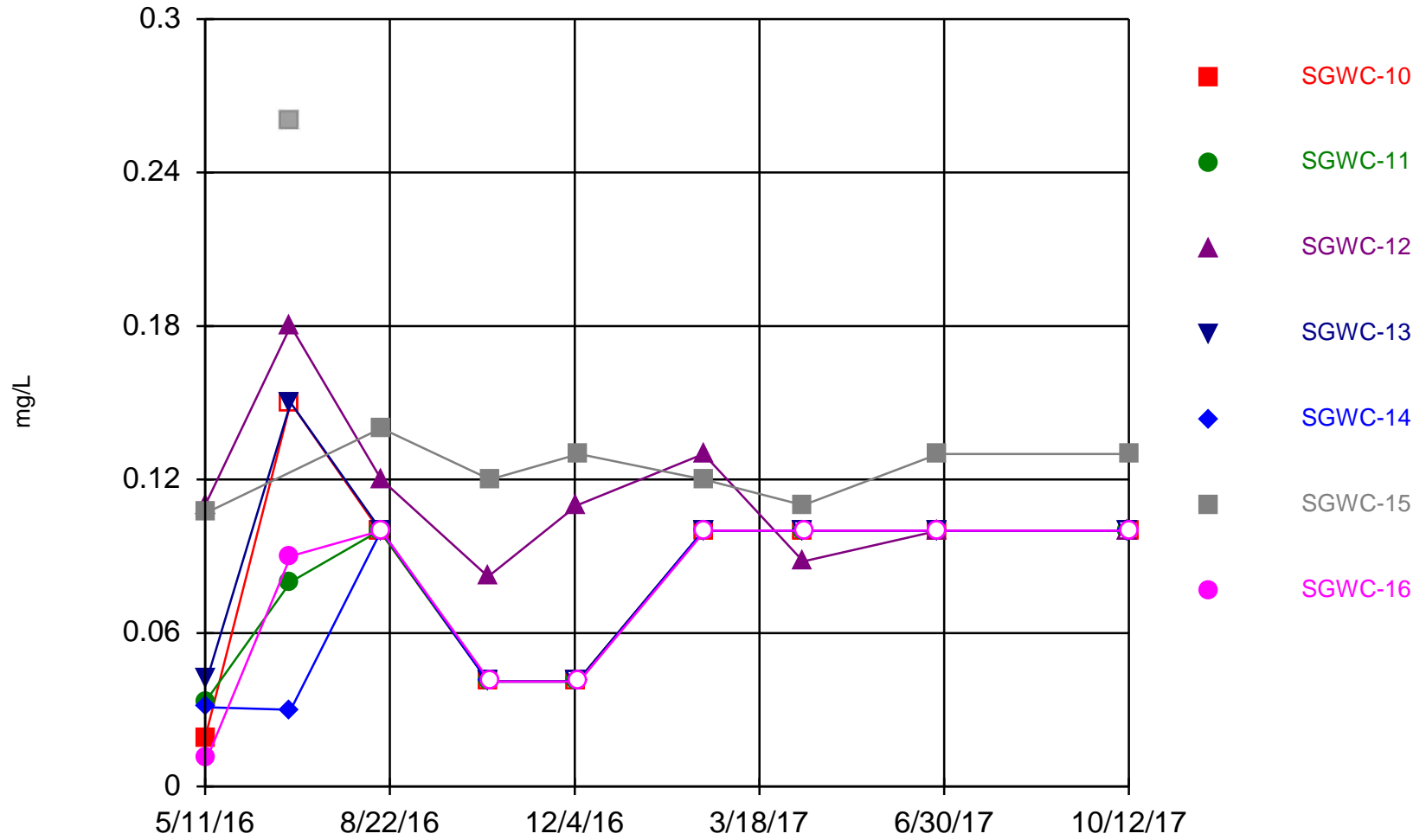
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Scherer Client: Golder Associates Data: Scherer Ash Pond_CCR

Time Series



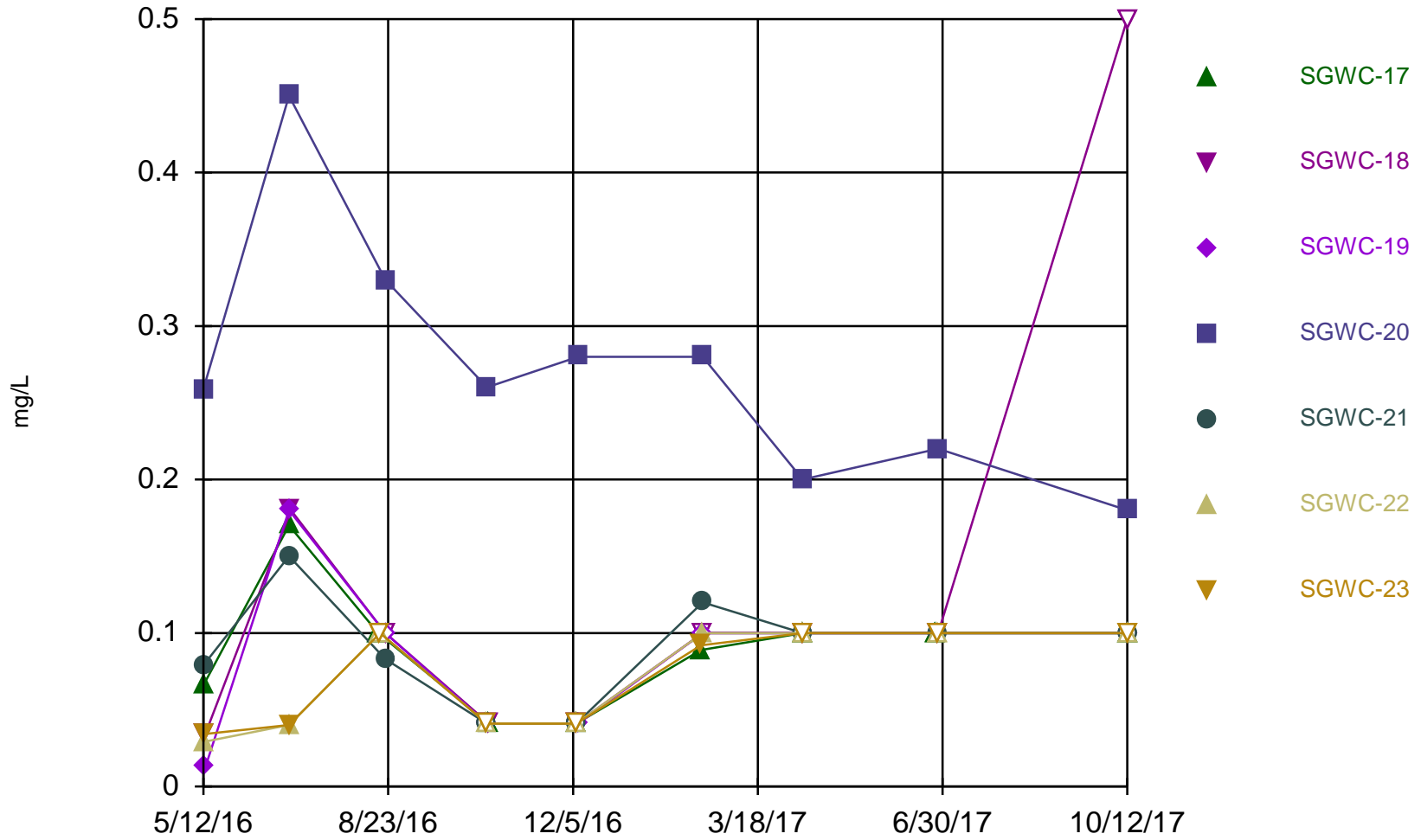
Constituent: Fluoride Analysis Run 1/23/2018 7:57 PM View: Ash Pond CCR
Scherer Client: Golder Associates Data: Scherer Ash Pond_CCR

Time Series



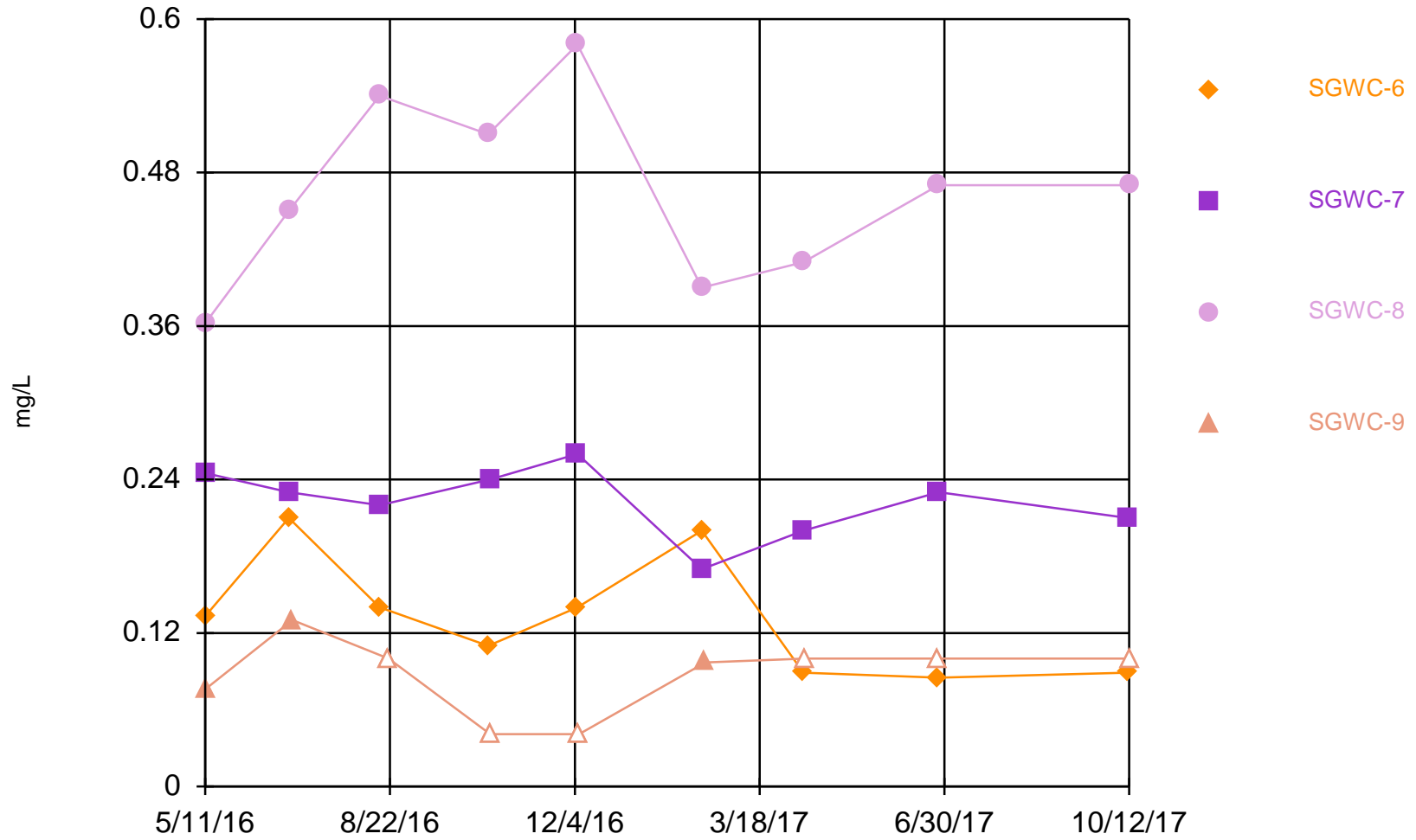
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Scherer Client: Golder Associates Data: Scherer Ash Pond_CCR

Time Series



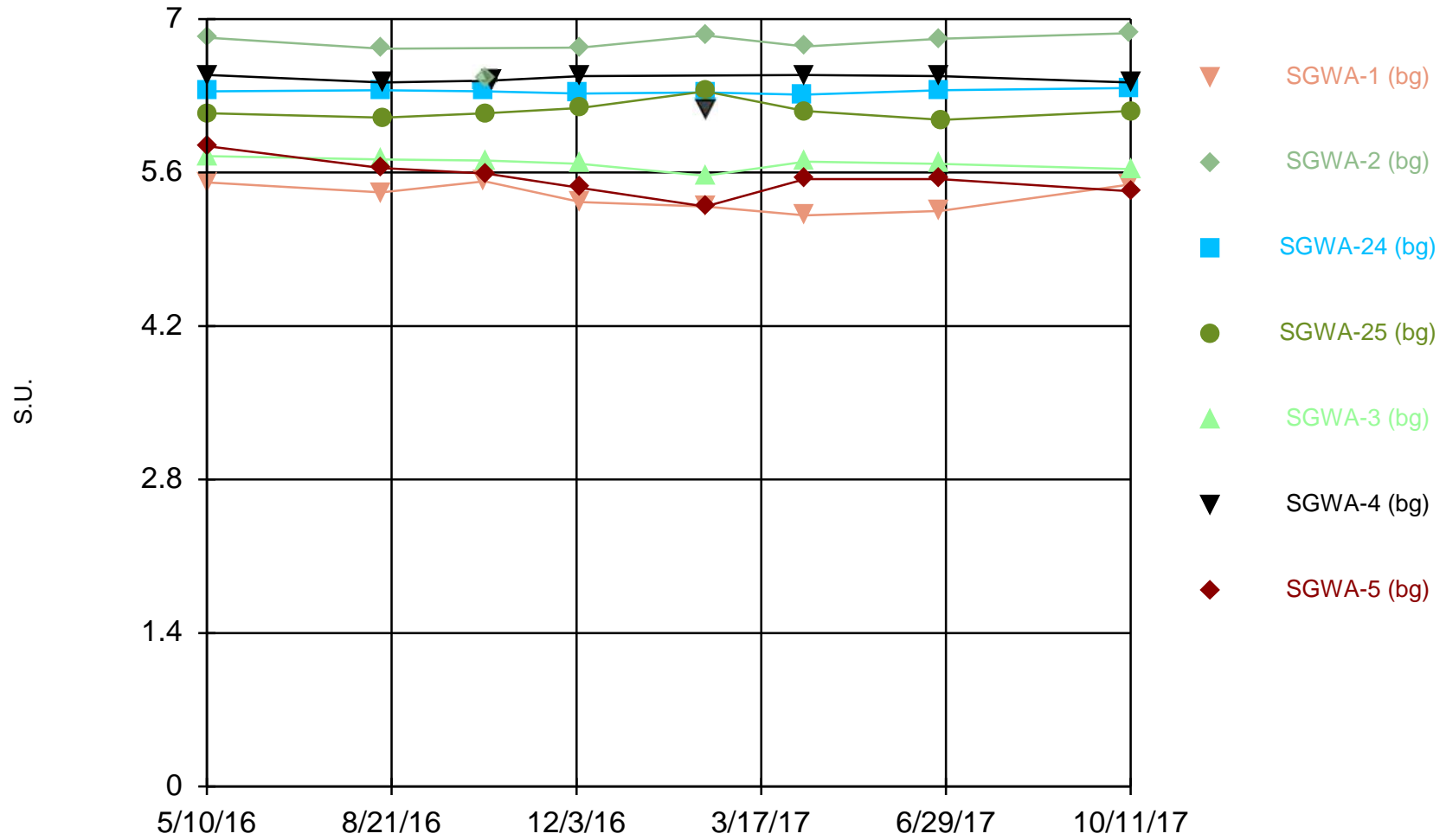
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Time Series



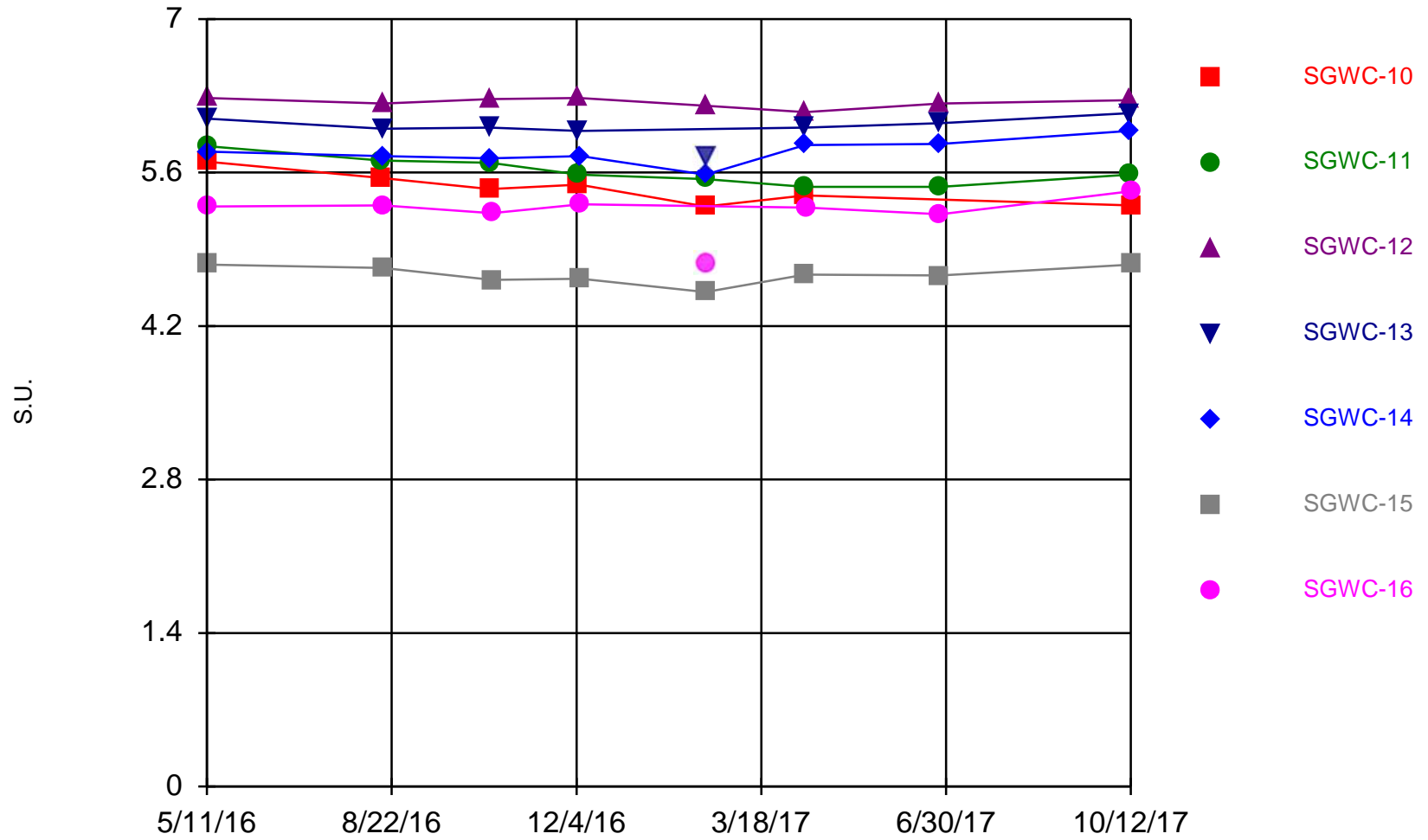
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Time Series



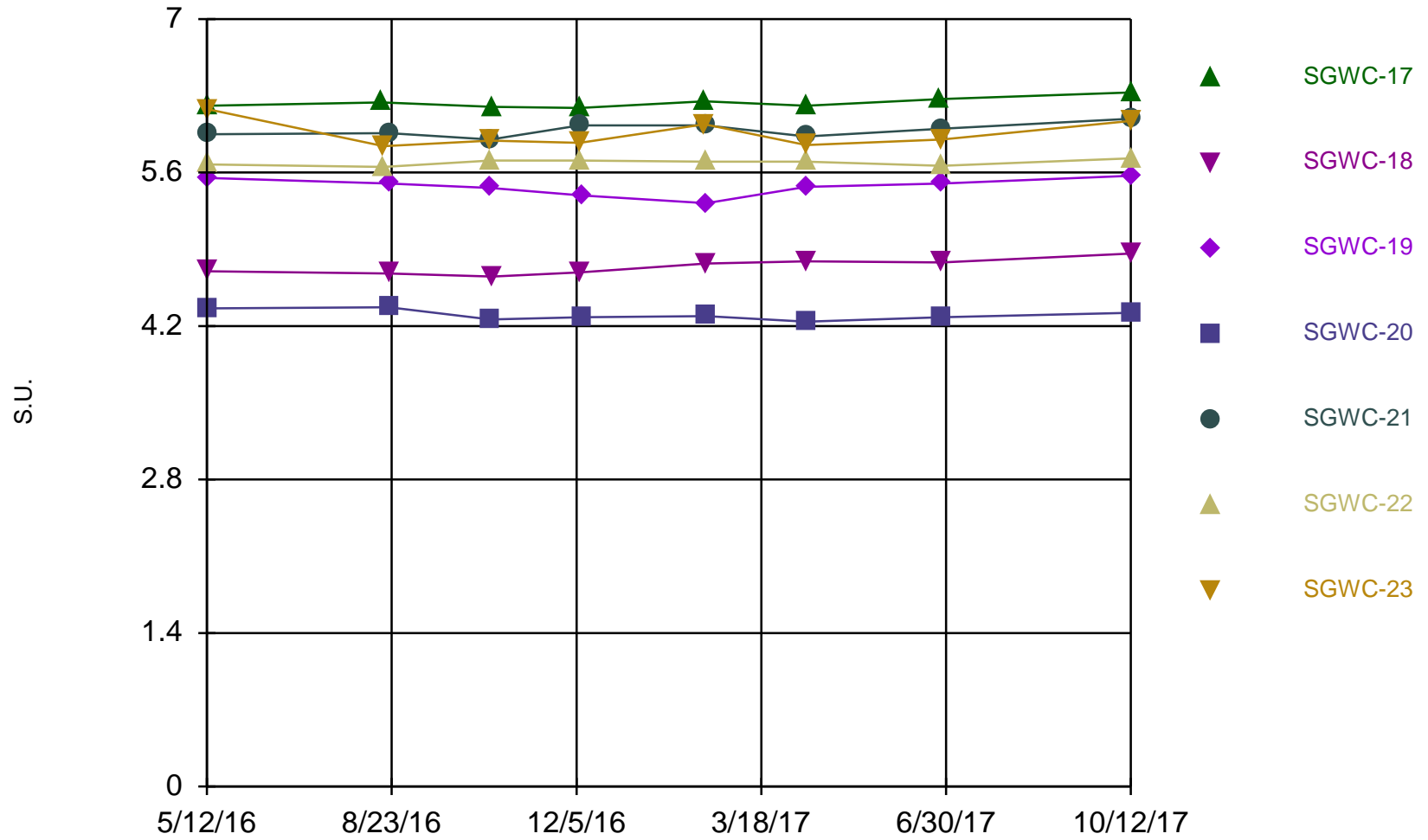
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Time Series



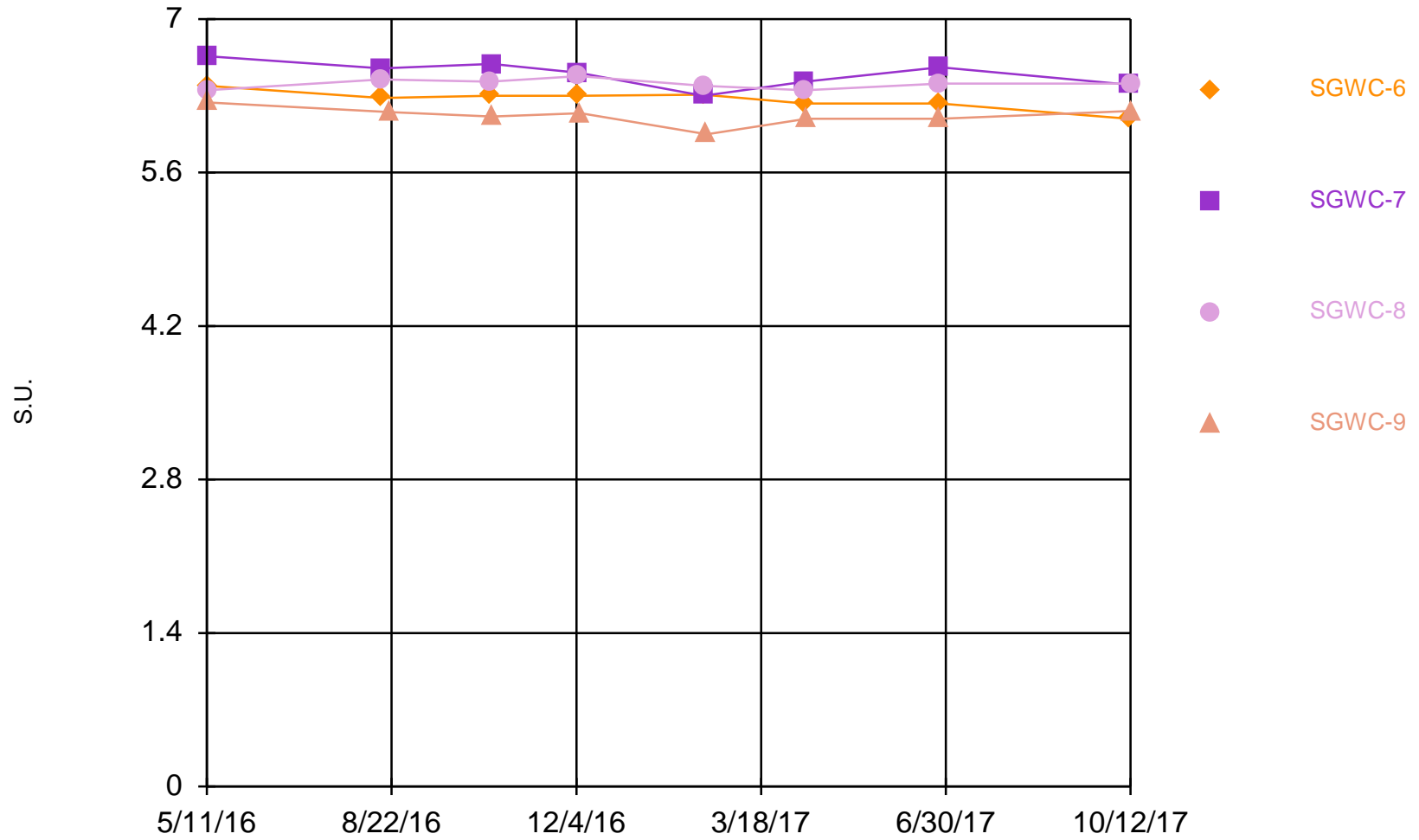
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Scherer Client: Golder Associates Data: Scherer Ash Pond_CCR

Time Series



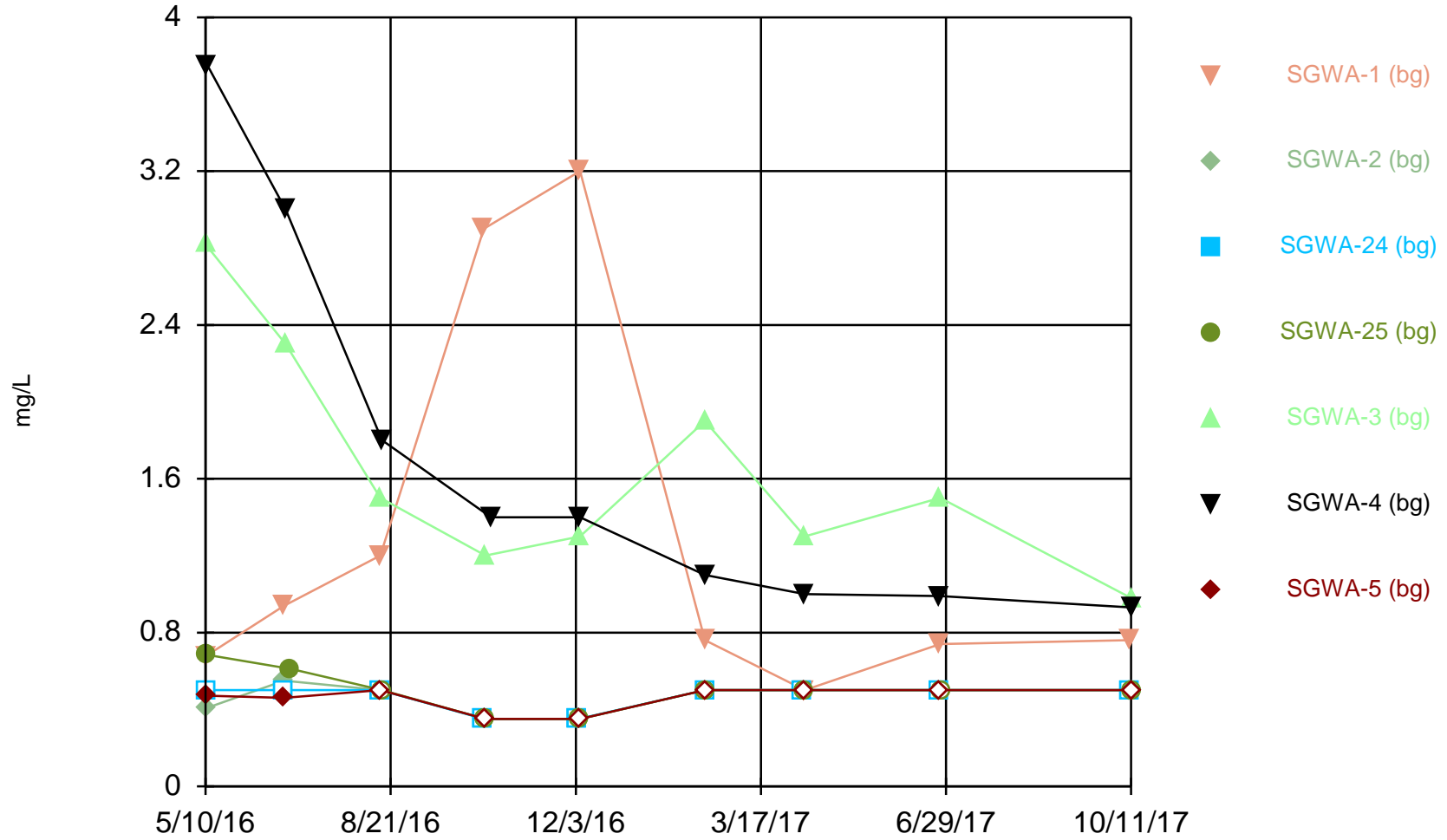
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Scherer Client: Golder Associates Data: Scherer Ash Pond_CCR

Time Series



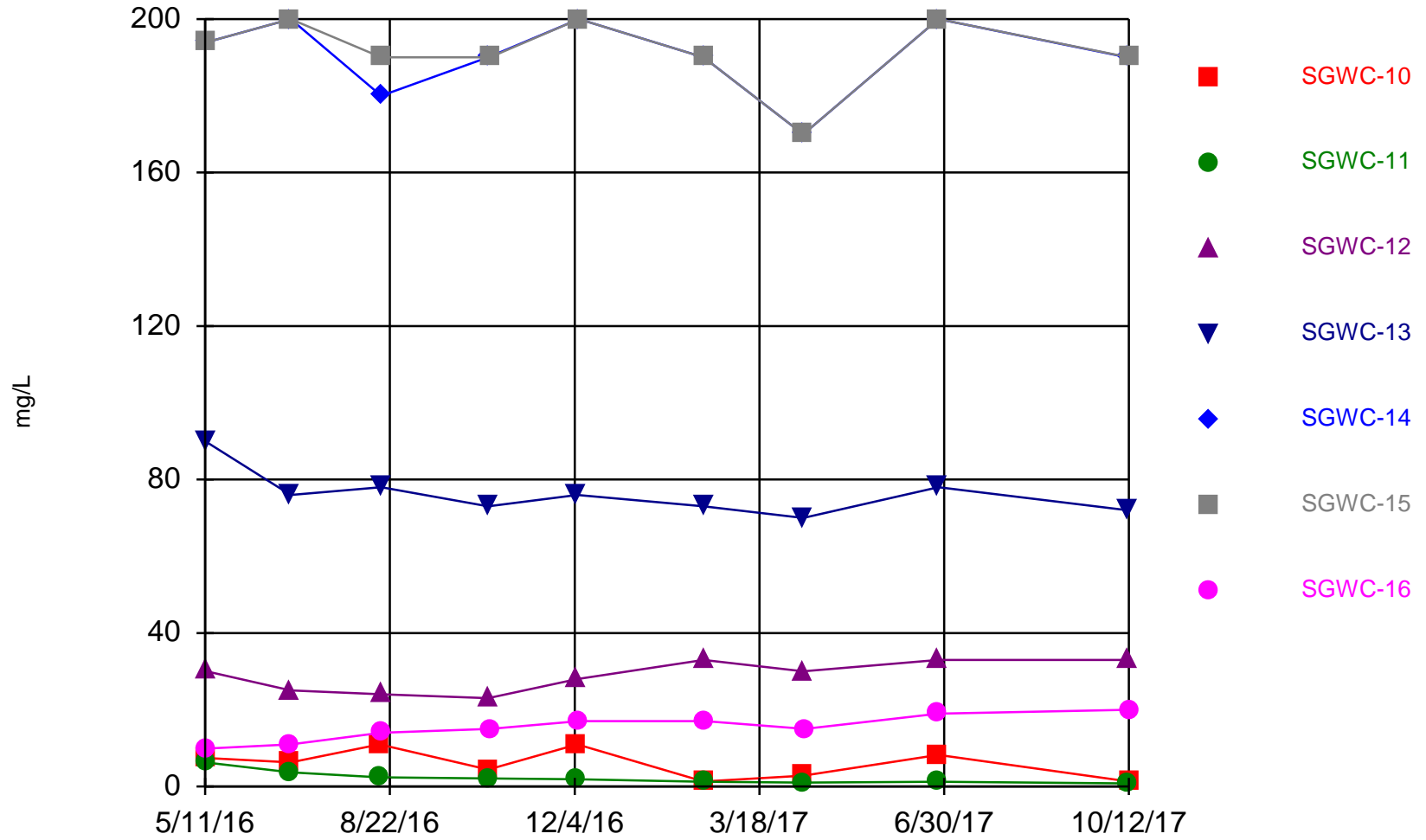
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Scherer Client: Golder Associates Data: Scherer Ash Pond_CCR

Time Series



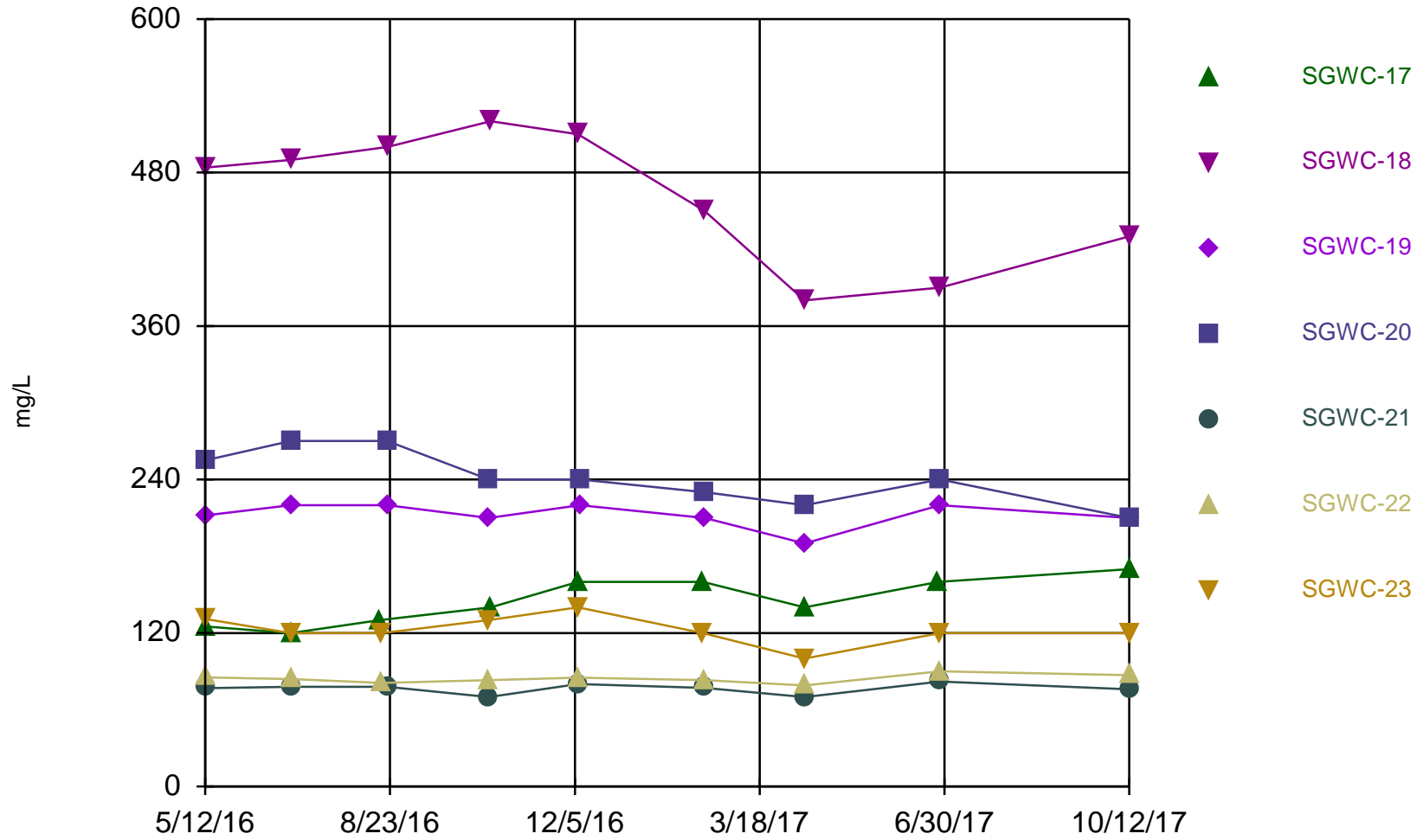
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Scherer Client: Golder Associates Data: Scherer Ash Pond_CCR

Time Series



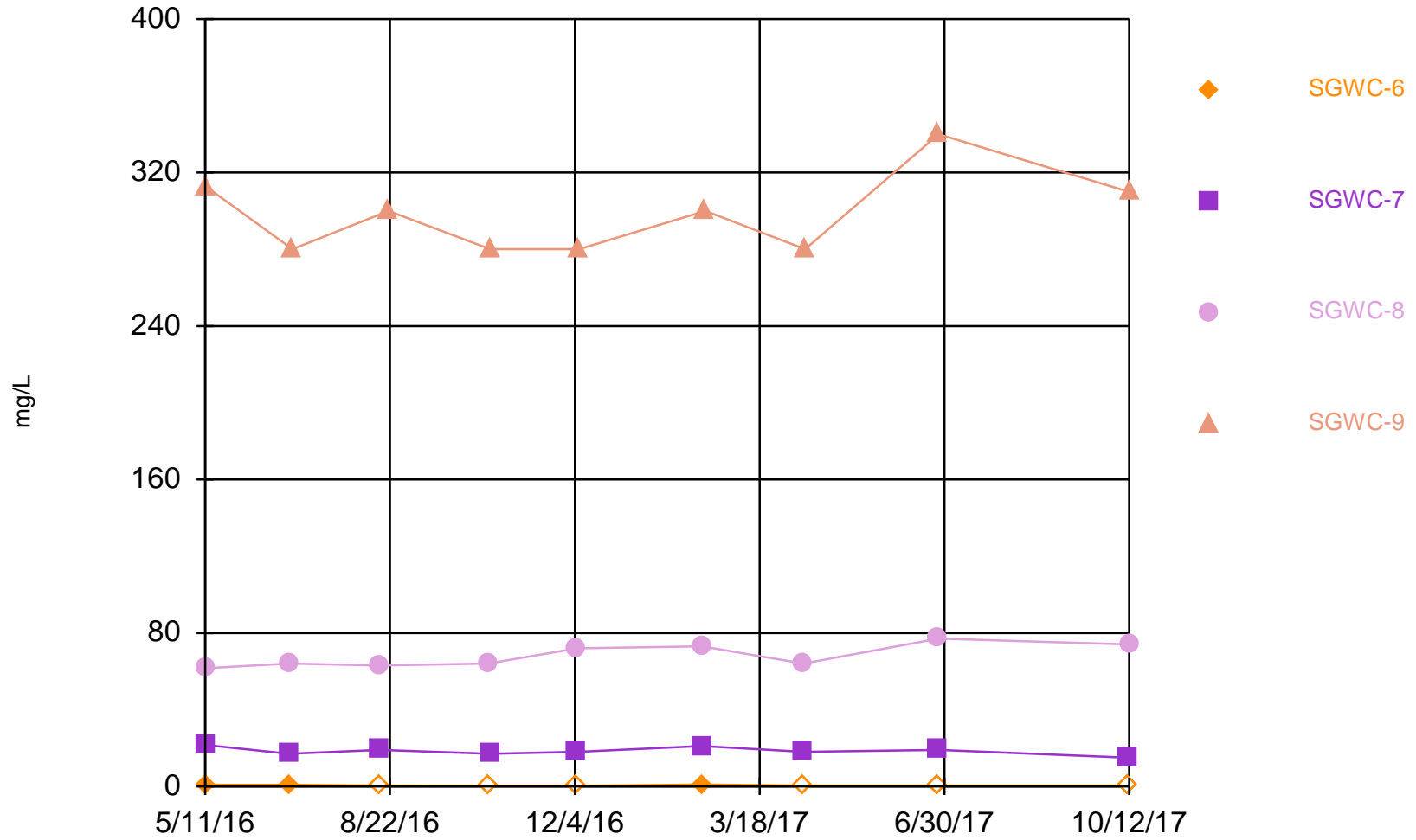
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Scherer Client: Golder Associates Data: Scherer Ash Pond_CCR

Time Series



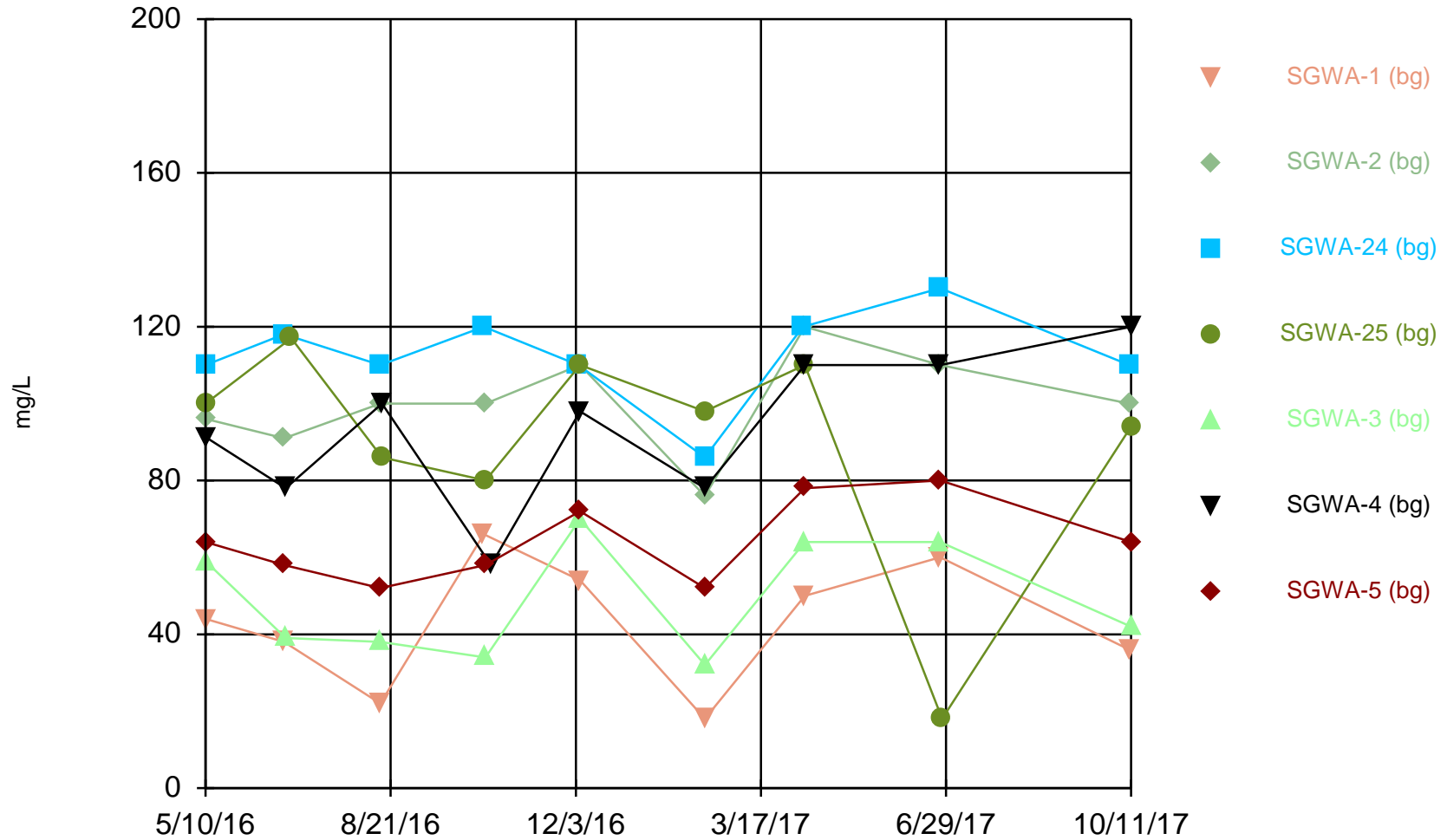
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Scherer Client: Golder Associates Data: Scherer Ash Pond_CCR

Time Series



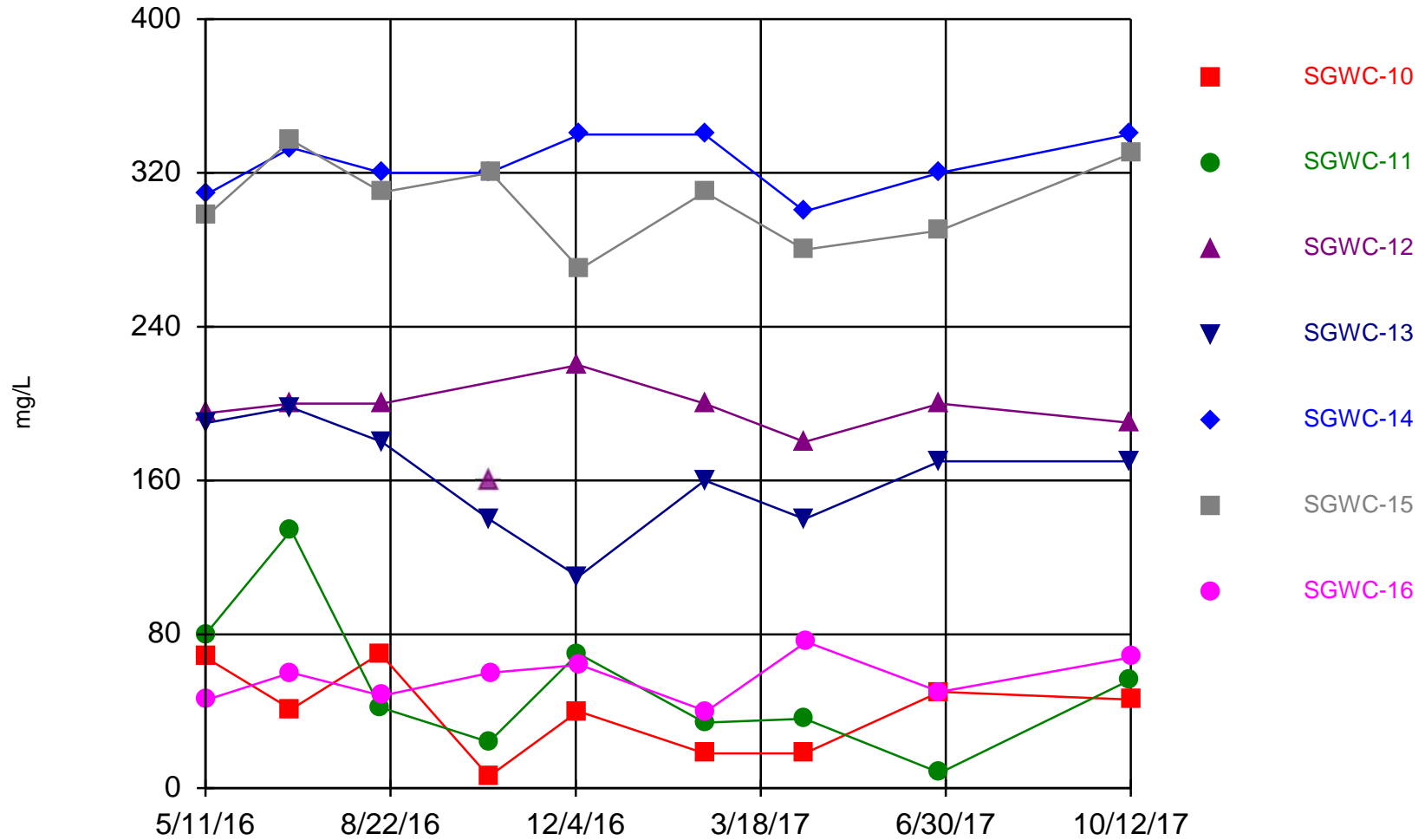
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Scherer Client: Golder Associates Data: Scherer Ash Pond_CCR

Time Series



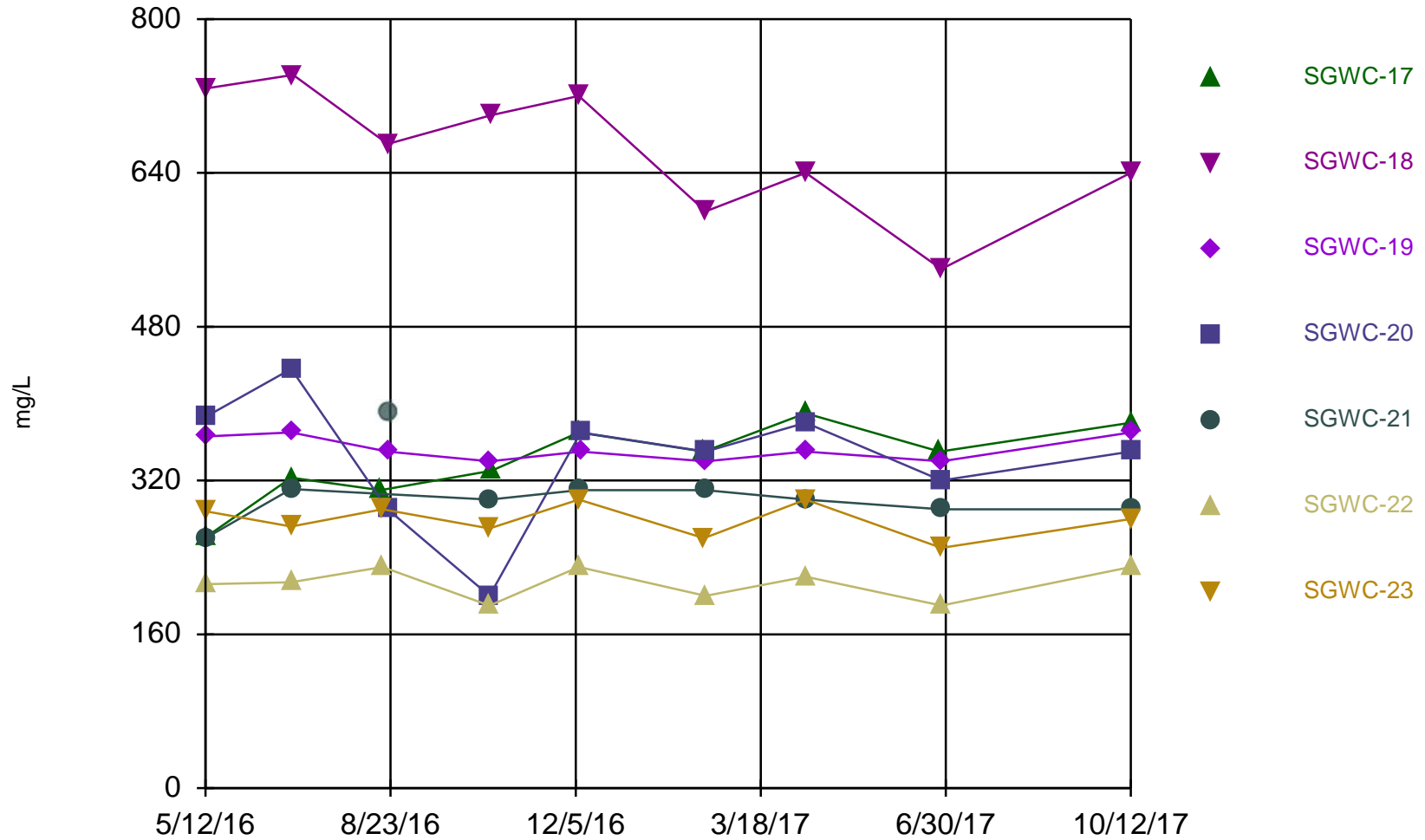
Constituent: Total Dissolved Solids Analysis Run 1/23/2018 7:57 PM View: Ash Pond CCR
Scherer Client: Golder Associates Data: Scherer Ash Pond_CCR

Time Series



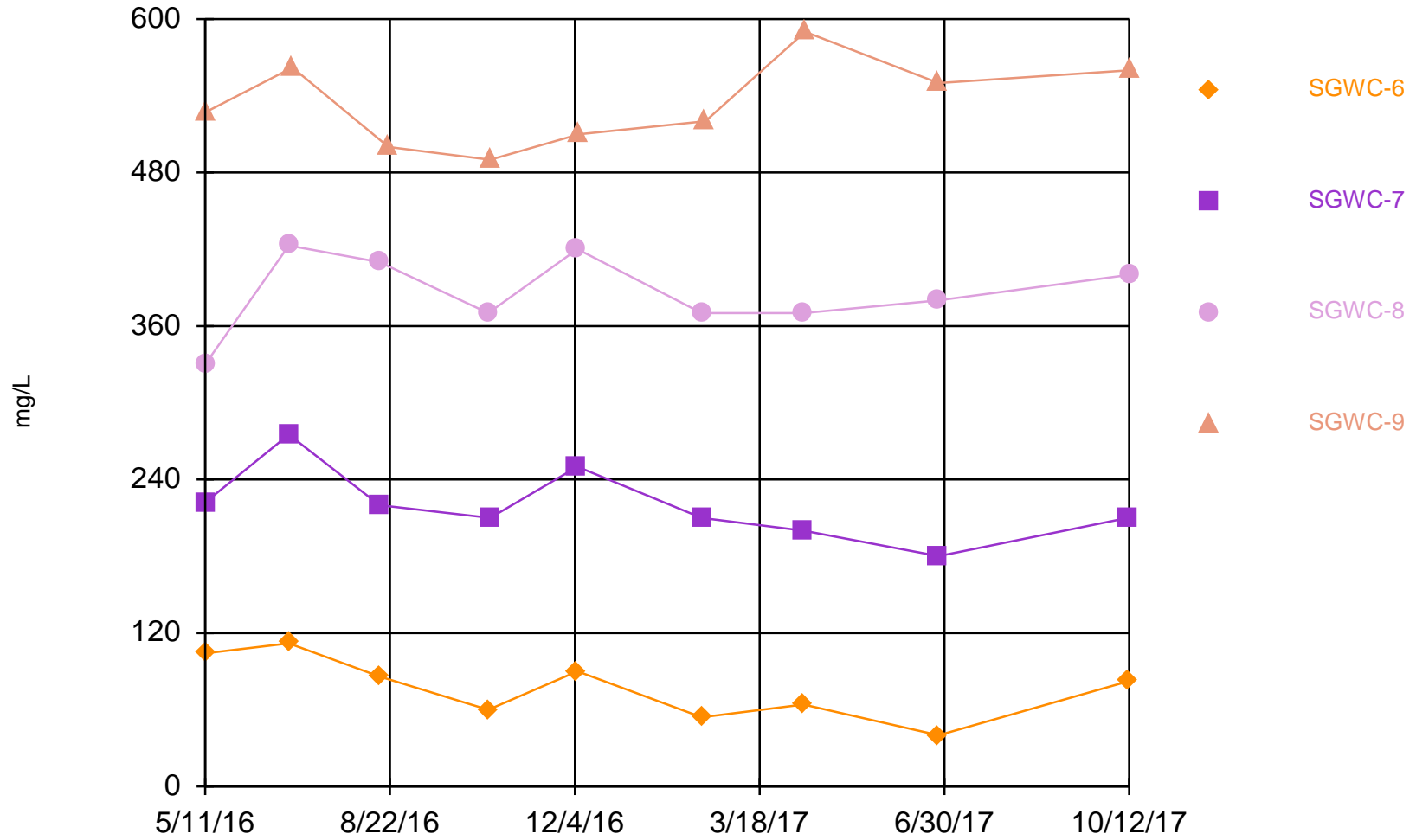
Constituent: Total Dissolved Solids Analysis Run 1/23/2018 7:57 PM View: Ash Pond CCR
Scherer Client: Golder Associates Data: Scherer Ash Pond_CCR

Time Series



Constituent: Total Dissolved Solids Analysis Run 1/23/2018 7:57 PM View: Ash Pond CCR
Scherer Client: Golder Associates Data: Scherer Ash Pond_CCR

Time Series



Constituent: Total Dissolved Solids Analysis Run 1/23/2018 7:57 PM View: Ash Pond CCR
Scherer Client: Golder Associates Data: Scherer Ash Pond_CCR

Established in 1960, Golder Associates is a global, employee-owned organization that helps clients find sustainable solutions to the challenges of finite resources, energy and water supply and management, waste management, urbanization, and climate change. We provide a wide range of independent consulting, design, and construction services in our specialist areas of earth, environment, and energy. By building strong relationships and meeting the needs of clients, our people have created one of the most trusted professional services organizations in the world.

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